MR 198

CANADIAN MINERAL DEPOSITS NOT BEING MINED IN 1983

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CANADIAN MINERAL DEPOSITS NOT BEING MINED IN 1983

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PREFACE

Judging by the reception of its predecessors, this latest inventory of deposits that are not being mined, published by the Mineral Policy Sector, should prove to be a popular reference book with those interested in the potential and development of Canadian mineral resources. The preceding edition was published as Internal Report MRI 80/7 in 1980.

The compilation was made by the staff of the National Mineral Inventory which, having over the years built up a comprehensive bank of data on Canadian mineral occurrences, had an excellent base from which to put together this document. I wish to acknowledge the important contribution to completing this edition by the many people in government and industry who willingly supplied information.

R.J. Shank
Director-General
Resource Supply and Information
Branch

ABSTRACT

This is an inventory of Canadian mineral deposits, which according to available information, are not or will not be in production at the end of 1983.

The compilation is based on data at hand in late May 1983. It consists of 1,579 entries by deposit or deposit group whose geology, investigation and estimated resources are summarized. It is intended as a handy reference to potential mineral producers and is the latest update of a series of such publications issued by Mineral Policy Sector since 1976.

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INTRODUCTION

This report lists known Canadian mineral deposits which, according to current information, will not be in production at the end of 1983. The inventory includes deposits of metals, other than iron, with incomplete coverage of industrial minerals. Excluded are deposits of hydrocarbons and many industrial minerals, such as limestone, potash, and building and construction materials. Entries cover a broad spectrum of size and economic viability. Deposits included are those for which tonnage-and-grade or analogous figures (e.g. dimensions and grade) exist and, in a few cases, deposits believed to be significant but for which resource figures are not available.

"Canadian Mineral Deposits Not Being Mined in 1983" is the third compilation of its kind to be published by the Mineral Policy Sector. The first, "A Survey of Known Mineral Deposits in Canada that are Not Being Mined", by R.C. Annis, D.A. Cranstone and M. Vallée, was issued in 1976 as a miscellaneous publication and republished with an addendum in 1978 as Mineral Bulletin MR 181. The second, "Canadian Mineral Deposits Not Being Mined in 1980", was released in 1980 as Internal Report MRI 80/7.

The format of the current publication is identical to that of its immediate predecessor. Table entries are ordered by province or territory, National Topographic Series (NTS), and deposit name. Data is summarized under five headings:

Deposit: deposit or property name; last known owner; location by NTS area and latitude-longitude.

Geology: a brief summary.

Work: a brief chronological summary of exploration and development work and past production (if any).

Tonnages & Grades: category of estimation; tonnage-grade or analogous data; year of estimation or re-evaluation (underlined); source of tonnage and grade figures (in brackets).

Remarks: further details concerning tonnage and grade data; known factors pertaining to exploitability; current and planned work; additional data on location, and the like.

Most of the tabulated data on each deposit was derived from National Mineral Inventory (NMI) records which document comprehensively some 19,000 Canadian occurrences. The NMI records are based on various published and unpublished sources.

The amount and quality of information on different Canadian mineral deposits available for this compilation varies from reasonably complete to practically non-existent. Every effort has been made to consult all sources available and to produce the best assessment of the tonnage and grade estimations which come from various stages of exploration and development. A reader must keep the above conditions in mind when comparing the resource figures.

Care has been taken in this compilation to minimize bias through excessive interpretation. Deposit data is presented as given, including categories of resource estimation, such as proven, measured, drill-indicated, or speculative. The tonnage-grade figures, including data on dilution, cut-offs, depth of estimation and the like, are transferred directly from the most complete available source, without converting to any one system of measures; alternative figures found in other reputable sources are also listed. An abbreviated reference to each tonnage-grade figure used is given.

Judgements or potentially controversial statements are confined to the "Remarks" column. They are the responsibility of the compilers and do not reflect an official government position or policy.

Users are requested to bring any errors or omissions in this publication to the National Mineral Inventory so that future editions and NMI records can be improved. Please address your comments to:

National Mineral Inventory
Mineral Policy Sector
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4
Telephone: (613) 995-9466

National Mineral Inventory has some 19,000 mineral deposits records on open file which cover the deposits listed in this book in much greater detail; they also cover many thousands of other deposits and occurrences in Canada other than those in this volume. Xeroxed copies of the NMI records are available to the public at the cost of 25¢ per sheet (usually one per occurrence).

Also available are custom printouts from MINSYS computer systems, which provide indexes and access pointers to the NMI records. The printouts are obtainable for a nominal charge, as is the whole MINSYS database on magnetic tape.

ABBREVIATIONS

To limit the bulk of this publication abbreviations are widely used in the text. Some are readily recognizeable. Others, whose meaning may be less easily discerned, are identified below.

Minerals, commodities and rocks:

Asb	- asbestos	gnt	- garnet	mo	- molybdenite	sph	- sphalerite
asp	- arsenopyrite	grp	- graphite	PGM	- platinum group metals	sulphs	- sulphides
carb	- carbonate	gyp	- gypsum	pn	- pentlandite	Tr	- trenching
cp	- chalcopyrite	Kyn	- kyanite	po	- pyrrhotite	Trm	- tremolite
dol	- dolomite	ls	- limestone	py	- pyrite	Ver	- vermiculite
dtm	- diatomite	mag	- magnetite	qtz	- quartz	VG	- visible gold
gal	- galena						

Other general abbreviations:

avg	- average	FW	- footwall	mng	- mining	pot	- potential
c	- about	g	- gram(s)	mnrl'n	- mineralization	qtzite	- quartzite
conc	- concentrate(s)	g/mt or g/t	- grams per metric ton	ms	- massive	rad	- radiometric
dd	- drill(ing)	HW	- hangingwall	mt	- metric tons	res	- resistivity survey
ddh	- drill hole(s)	ind	- indicated	MT/VM or T/VM	- metric tons per vertical metre	spec	- speculative
dev	- development	inf	- inferred	o/p	- open pit	t	- short ton(s)**
dil	- dilution	int	- interest	ops	- operations	T/VF	- short tons per vertical foot
dis, dissem	- disseminated	L	- level	poss	- possible	u/g	- underground
disc	- discovery	lt	- long tons*	prob	- probabl-e, -y	w/o	- without
est	- estimate(d)	meas	- measured				

Reference components (given in brackets after tonnage-grade figures):

Ann Mtg	- Annual Meeting	CJES	-	Canadian Journal of Earth Sciences
AR	- Annual Report	CL	-	Company Limited
Asmt Rept	- Assessment Report	CMH	-	Canadian Mines Handbook
BC	- British Columbia Ministry of Energy, Mines and Petroleum Resources (prefix)	CMJ	-	Canadian Mining Journal
		Co	-	Company
BC Asmt Rept	- BC Assessment Report	CSE	-	Canadian Stock Exchange (prefix)
BC GEM	- BC Geology, Exploration and Mining	EMJ	-	Engineering and Mining Journal
BC GF	- BC Geological Fieldwork	EMR	-	Canada Dept. of Energy, Mines & Resources (prefix)
BCI	- BC Mineral Deposit Inventory	FP	-	The Financial Post
BC RD	- BC Published Reserves Data	FP Corp Serv	-	FP Corporation Service
BC RMM	- BC Reports of Minister of Mines	FP Surv Ms	-	FP Survey of Mines
Bull	- Bulletin	FR	-	Financial Record
CANMET	- Canada Centre for Mineral and Energy Technology	FS	-	Filing Statement
		GCNL	-	George Cross Newsletter
CANMET IR	- CANMET Investigation Report	G&M	-	Globe & Mail
CANMET IMR	- CANMET Industrial Minerals Report	GML	-	Gold Mines Limited
CIM	- Canadian Institute of Mining and Metallurgy (prefix)	GR	-	Geological Report
		GSC	-	Geological Survey of Canada (prefix)
CIM Spec Vol	- CIM Special Volume	GSC EG	-	GSC Economic Geology Report or Series
CIM Str Geol	- CIM Structural Geology of Canadian Ore Deposits (special volume)	GSC Mem	-	GSC Memoir
		GSC P	-	GSC Paper
CIM Trans	- CIM Transactions	IANA	-	Canada Dept. of Indian and Northern Affairs (prefix)

IANA EGS	-	IANA Economic Geology Series
IANA MIR	-	IANA Mineral Industry Report
IGC	-	International Geological Congress
Inv	-	Mineral Inventory
List Stat or LS	-	Listing Statement
Man	-	Manitoba Dept. of Mines, Natural Resources and Environment incl. predecessor depts. (prefix)
Man ES	-	Man Educational Series
Man GP	-	Man Geology Paper
Man Publ	-	Man Publication
MPS	-	Mineral Policy Sector incl. predecessors (prefix)
MPS MR	-	MPS, Mineral Report
MPS NMI	-	MPS, National Mineral Inventory
MPS RF	-	MPS, Technical Records File
MSE	-	Montreal Stock Exchange (prefix)
Nfld	-	Newfoundland Dept. of Mines and Energy (prefix)
Nfld Info Circ	-	Nfld Information Circular
NB	-	New Brunswick Dept. of Natural Resources (prefix)
NS Mnrl File	-	Nova Scotia Dept. of Mines, Mineral File
NM	-	The Northern Miner
OFR	-	Open File Report
Ont	-	Ontario Geological Survey or its predecessors (prefix)
Ont IMR	-	Ont Industrial Mineral Report
Ont MDC	-	Ont Mineral Deposit Circular
Ont MP	-	Ont Miscellaneous Paper
Ont MRC	-	Ont Mineral Resources Circular
Ont SMDR	-	Ont Source Mineral Deposit Record
PR	-	Preliminary Report
pt	-	part
Que	-	Ministère de l'Energie et des Ressources du Québec and predecessor depts. (prefix)
Que DP or DPV	-	Que Document Publique, incl. Varia
Que ES	-	Que Etude Spéciale
Que Fiche	-	Que Fiche de Gîte
Que GM	-	Que Gîtes Minéraux (series)
Que GR	-	Que Geological Report (in English)
Que MIQ	-	Que Mining Industry in Quebec or predecessor (English or bilingual)
Que PR	-	Que Preliminary Report (in English)
Que RP	-	Que Rapport Préliminaire
Que SP	-	Que Special Paper (in English)
Que TT	-	Que Tableaux des Tonnages et des Teneurs
Rept	-	Report
Sask	-	Saskatchewan Dept. of Energy and Mines or predecessor (prefix)
Sask MD	-	Sask, Mineral Deposit Index
Synd	-	Syndicate
TSE	-	Toronto Stock Exchange (prefix)
VSE	-	Vancouver Stock Exchange (prefix)
VSE AL	-	VSE Application for Listing
VSE FS	-	VSE Filing Statement
VSE SMF	-	VSE Statement of Material Facts
WCMN	-	Western Canada Mining News
WM	-	Western Miner

Short-form presentation (examples)

250-500,000	-	250,000 - 500,000 short tons
70,000 Asb	-	70,000 short tons of asbestos-bearing material

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* Some figures shown without this symbol may represent long tons (e.g. for Fe-Ti deposits), the symbol having been left out if long tons were not specified in the source.

** Short ton figures are usually given without any identifying symbol.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES		REMARKS
	NEWFOUNDLAND					
NFLD-1	BLUE BEACH VEIN Aluminum C of Can L 1 L/14 46°54'45" 55°24'05"	Fluorite vein cuts sedimentary rocks and Devonian granite. Vein has 3 ore lenses, is over 7,700' long, averaging 10' in width, & 200' depth. Minor sph, gal, py.	1934: shaft sinking. 1934-45; 50-57: prod. 1964: dd. 1967-68: trenching, dd. 1971: dd. 1972-78: prod.	N/A	CaF_2	Mining operations in the St. Lawrence area ceased in Feb. 1978. Fluorite bearing veins are still present. C.1974 enough fluorite material for 10-15 years of production.
NFLD-2	DIRECTOR MINE Aluminum C of Can L 1 L/14 46°54'25" 55°25'	Fluorite veins in Devonian granite and in contact zone with slate. Vein 6,000' x 6"-90' contains fluorite, cp, gal, py, barite.	1937: shaft sinking. 1942-56: prod of 550,000 tons 75%-80% CaF_2, resistivity test survey dd in 1954. 1956-61, 63-64: dd. 1965-71: drifting, dd, trenching. 1957-78: prod.	N/A	CaF_2	Mining ceased in Feb. 1978. Operation not economic. C.1974 enough fluorite material remained for 10-15 years of production.
NFLD-3	TAREFARE MINE Aluminum C of Can L 1 L/14 46°53'30" 55°25'45"	Fluorite veins in Devonian granite. Tarefare vein 2,000' x 2'-4' contains fluorite, gal, sph, barite.	1937: dd. 1942: prod of 500 tons Fsp. 1947: dd. 1947-49: prod of 8,900 tons Fsp. 1966-71: shaft deepened, drifting, trenching, dd. 1962-78: prod.	N/A	CaF_2	Mining operations ceased in Feb. 1978. Operation not economic. C.1974 enough fluorite material remained for 10-15 years of production.
NFLD-4	FORTUNE Nfld and Labrador Corp. L. (Nalco) (in 1977) 1 M/4 46°59'59" 55°53'20"	Qtzite of Cambrian or Precambrian Random Fm.	1965: sampling. 1966: dd.	ind: 8,860,000 at 96.4% SiO_2 1966 (Nfld Rept 76-2, p 5, 1976)		
NFLD-5	RENCONTRE EAST (ACKLEY CITY) Fee Simple Grant administered by Nfld (in 1977) 1 M/11 47°41'30" 55°12'30"	Disseminated molybdenite in granite along contact with volcanics	1938: shaft sinking. 1943, 1959: dd. 1969: dd, biogeochem survey.	proven: 125,000 at 0.31% Mo 1938 (Nfld OFR 888, p 14, 1976)		
NFLD-6	GARRISON HILLS 1 M/12 47°42.5' 55°46'	Qtz vein with feldspar rich sections 1,900' x 500' x 170' zone.	1965: sampling.	1,032,000 SiO_2, grade unstated in qtz zone plus 1,200,000 SiO_2, grade unstated in feldspar zone c 1965 (Nfld OFR 888, p 15, '976)		Average of 36 chip samples: 96.6% SiO_2; 2.2% Al_2O_3; 0.4% Fe_2O_3.
NFLD-7	SILVER CLIFF MINE Eastern Trust C, St. John's, Nfld	One inch to 3'-4' wide and up to several tens of feet long shoots of gal, sph, py in	1882-98: mined intermittently. 1922-25: 2,500 tons mined, 226 tons concentrate shipped	N/A	Pb-Ag-Zn	Mackay vein samples: 23.2% to 61.2% Pb; 0.5-20 oz/t Ag; Tr-5

	(in 1973) 1 N/5 47°18'15" 53°56'45"	veins cutting sedimentary rocks. Main vein 186' long.	at c.65% Pb, 22 oz/t Ag, some Au.		dwts 5.4 grains/t Au.
NFLD-8	MANUELS-KELLIGREWS Brinco L (in 1973) 1 N/6, 10 47°30' 53°00'	About 10 mi long zone of manganiferous shales and carbonates of middle Cambrian age. Rhodocrosite with phosphate main economic minerals.	early 1900's: attempts to mine. 1910: adit, stripping, pitting at Kelligrews River. 1942: 6 ddh's, metallurgical test work.	10,000,000 Mn, grade unstated in 5' x 1,000' x 4 mi 1942 (R Wiseman 1942, Nfld unpubl rept)	Between Manuels and Kelligrews. 3 samples over 5.8'; 7.8'; 13.4' contained 11.55%; 10.73%; 8.29% Mn.
NFLD-9	BRIGUS MANGANESE DEPOSIT Brigus Manganese L (in 1969) 1 N/11 47°32' 53°11'	Carbonate (rhodocrosite), silicate, and oxide (pyroluaite) manganese with traces of sulphides and phosphate in beds of middle Cambrian age. The manganiferous zone is 15' thick, 1,750' long.	pre-1914: test pits. 1920: 160 tons of 37% Mn shipped. 1940-41: sampling, trenching, stripping. 1943: metallurgical testing. 1951: sampling.	24,000 at 8.4% Mn over 300' x 150' or 17,000 at 9.2% Mn c 1942 (Nfld OFR 888, p 25, 1976)	Highest grade beds: 17.2% and 39.97% MnO_2.
NFLD-10	COLLIER COVE J. Tyler Mng & Expls L (in 1980) 1 N/12 47°35.5' 53°41.2'	Coarse bladed barite in a vein cutting Precambrian arkose.	1902-04: prod 6,615 tons, shaft 40', 100' drift. 1951: feasibility study. 1980: prod of 15,000 tons.	200-300,000 barite, grade unknown (NM 01/01/81)	Nfld Rept 83-1, indicates a production of about 5,000 tons between 1902-04 and in 1980 about 9,000 tons.
NFLD-11	LA MANCHE H G Tibbo (in 1977) 1 N/12 47°41'20" 53°56'15"	Gal, with minor sph, cp, py, ba occur in a calcite vein. It cuts Precambrian slate of the Connecting Point Gp and has been traced for 3,100', thickness to 7' and a depth of 200'.	c 1855: discovery. 1857, 1863-1887: prod of 3,500 tons at 11-12% Pb to 1873, prod ceased 1887. 1927: shaft sinking. 1929: shaft to 390', drifting. 1946-1950: u/g work, dd, sampling.	12,500 at 8.2% Pb plus 48,500 at 6% Pb c 1950 (Nfld OFR 888, p 27, 1976)	Continued work 1981 by H.G. Tibbo and Tasu Res. L.
NFLD-12	GANDER RIVER Nfld and Labrador Corp L (Nalco) 2 E/1, 2 49°09'30" 54°30'	Lens-like masses of magnesite in pre-middle Ordovician ultramafic rocks of the Gander River ultrabasic belt. Bodies are from few hundred feet and over 1,000' long and from 60' to 200' wide. Gangue mnrls qtz, hydrous silicates, serpentine inclusions.	1951: mag survey. 1954: discovery.	10,000,000 Mg, grade unstated c 1957 (GE Cooper in Sixth Commonwealth Mng & Metallurgical Congress, p 174, 1957)	Area of 450,000 sq yds, 30' deep. Magnesite is siliceous. Within 10 miles of an excellent harbour.
NFLD-13	CRESCENT LAKE MINE Estate of Philip and J W Cleary (in 1963) 2 E/5 49°29' 55°50'40"	Py and cp with minor sph and po in 5' wide and 200' long qtz vein. In Ordovician volcanics.	1878; 1924-26: prod of 3,260 tons of which 1,260 at 27.7% Cu & 2,000 at 12% Cu, 1.86 oz/t Ag. 1952: Falconbridge Nickel carried out mag survey. 1958: geol mapping, EM & SP by Brinex. 1959: Brinex and New Jersey Zinc did geol mapping. 1970: geol mapping, mag, IP, VLF-EM, vert-loop EM, dd by Brinex.	93 I/VF at 0.71% Cu, 0.28 oz/t Ag plus 7,000 at 1.6-2.2% Cu in dump c 1962 (Nfld OFR 888, p 41, 1976)	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NFLD-14 NEW BAY POND Nalco 2 E/5 49°16'30" 55°37'51"	Massive sulphides in a length of 1,700' and max width of 200' in Ordovician felsic volcanics. A bulk sample averaged 0.79% Cu; 0.58% Zn; 0.38% As with lesser Co, Sb, Pb, Bi, Ni, Ag, and Au. Metallic mnrls incl extremely fine grained py, cp and sph.	1970: geol, geophys, geochem surveys. 1971: dd, discovery. 1972: airborne EM, ground geophy, geochem surveys, trenching, test pitting, dd, geol mapping. 1973: dd.	Substantial amount of Cu bearing material c 1974 ? (Nfld Inv 2E/5 Cu 4, 1979)	The property was optioned by Noranda Expl CL. Diamond drilling along entire strike length and has vertical depth of about 300 m. Largest single sulphide body discovered to date in Nfld.
NFLD-15 LOCKPORT MINE 2 E/6 Browning et. al; (Fee Simple) 49°27'18" 55°29'53"	Dis to ms sulphs in Ordovician acid to basic volcanic rocks. Mainly py, cp, sph, gal, bornite, some azurite occur as layers and lenses. Main A zone, 180 metres long, 75 metres wide. Au and Ag in trace amounts.	1870's-1880's: discovery, trenching. 1953: geol mapping. 1957: geol mapping, SP, vert loop EM, 1,143 metres dd.. 1962: geochem. 1965: geol surveys, geochem, geophysics 1968: 3 ddh's totalling 699 metres. 1969: geol surveys 1970: dd totalling 805 metres 1977-78: geochem, EM by Nfld. Dept. Mines and Energy.	Zone A: 242,500 at 1.21% Zn in Zn section plus 432,500 at 0.75% Cu in 3 copper zones c 1965 (Nfld Inv, 2 E/6, Cu 3)	In A Zone are an upper Zn section and 3 lower copper sections.
NFLD-16 FROST COVE (CROSS COVE) (MORTONS HARBOUR) W Lethbridge 2 E/10 49°34'30" 54°52'20"	Sulphides in 2 veins at sheared contact between rhyolite dyke and basic pillow lava. Main vein contains stibnite, minor asp, py, sph, gal, cp over a width of up to 1' and traced for 2,600'. Up to 38% Sb over 9". Oxidation products are kiermesite and cervanite.	1890: ore shipments. 1906: 100 tons of picked ore, 81 tons shipped. c 1914: re-opened. 1916: idle, tunnel 230' long. 1953: examined by Newmont Mng. 1955: EM survey by Nalco. 1965: geochem, EM, SP, dd by Nalco.	N/A Sb-Au-Ag	Sample of 1' vein and 4" wallrock assayed 0.588 oz/t Au; 0.588 oz/t Ag; 5.39% Sb; 4.59% S; 48.6% SiO_2. Past prod prob less than 1,000 t.
NFLD-17 PILLEYS ISLAND Goodfellow W and Smith 2 E/12 49°30'34" 55°43'05"	Irregular, pod-like ds to ms sulph bodies with lengths of 600' to 1,000', width 500' and thickness up to 40' mainly in sheared rhyolite of Ordovician and Silurian Roberts Arm Gp. Mnrsl incl py, cp, minor sph and gal. Main massive sulphide body cutoff by a fault. Some sulphides in basic volcanic rocks.	1875: discovery. 1891-99: prod of 300,000 tons. 1901-08: prod of 225,000 tons. 1919-20: dd, bottom of u/g, 7th level, 291' below shaft collar. 1951-52: dd by Frobisher L and Halcrow Swayze Mng CL 1956: dd by Matachewan Cons ML. 1959:re-evaluation by Frobisher. 1966-68: geol mapping, shipping, prospecting, dd by Brinex. 1970: soil sampling by Brinex. 1973-77: dd by Cons Morrison Expl L.	412,000 at 1.7% Cu and 31% S (cu-py material) plus 210,000 at 43-45% S (py material) 1952 (CANMET IMR 855, pp 145-146, 1958)	Ore of 2 types: 1) brown lump pyritic 2) hard copper lump 2%-3% Cu.

NFLD-18	MILES COVE MINE Estate of Phillip Cleary 2 E/12 49°32'22" 55°47'26"	Sulphs as dis, blebs, ms bands and stringers in en-echelon tabular and lensoidal shoots in Cambrian and/or Ordovician chlorite schist. Metallic mnrls include py, cp, mag with minor Au, Ag and qtz. Dd ind a zone 76 m long, avg 7 m wide, and steeply dipping.	1898: 3 shafts, u/g work. 1898-99: 190 mt Cu ore. 1935: geophysics. 1956: SP, ground magnetics, 13 ddh for 1,645 m. 1963-65: geochem, SP, mag & EM surveys. 1967: 8 ddh for 1,223 m. 1977-78: geol, geophysics by Nfld. Dept. Mines & Energy.	128,900 mt at 1.55% Cu, 0.01 oz/t Au, 0.35 oz/t Ag 1957 (Nfld. Inv, 2 E/12, Cu 12, 9/79)		
NFLD-19	BETTS COVE MINE Browning and Knight 2 E/13 49°48.7' 55°48.4'	Py, cp, sph lenses in chlorite schist shear zones in Ordovician Snooks Arm group andesitic pillow lava. Outcropping shoots less than 25'. Disseminated to massive sulphides with low Au and Ag values. Some cp in qtz lenses, rare gal.	1875: mine opened. 1877: smelting works. 1875-86: 116,412 tons of 10% Cu shipped. 1900: 450' tunnel. 1952: geol EM surv by Falconbridge. 1955: dd by Advocate ML, 8 ddh - 1,079 m.	N/A	Cu-Zn	Three ore dumps of unknown quantity. Grab samples from dump 4.14-5.06% Zn; 0.39-1.63% Cu; values in Au, Ag. Ops suspended in 1886 due to cave-in.
NFLD-20	GOOSE COVE Mrs K M Blair 2 M/5 51°18'40" 55°37'30"	Py, po, cp with lesser concentrations of sph mag, and Cu-Ni-Co arsenides occur as stringers and bunches in chlorite schist. The host is basic volcanic rock of the Ordovician Goose Cove Fm. Irregular sulphide shoots; main body U-shaped in a dragfold and has a thickness of about 4'. Zone traced for 1,500' to a depth of 120'.	1908: mng started, 6 shafts, the deepest 122'. About 1,800 tons raised.	1,800 at 0.95-10% Cu on dump 1918 Nfld Info Circ No 4, p 60, 1953)		Ore from shaft reported to average 2%-12% Cu.
NFLD-21	DIAMOND COVE Fee Simple Grant administered by Nfld Govt (1977) 11 O/10 47°36.8' 58°42.4'	Qtz vein over 1,400' long and 160' wide. Up to 20% qtz-mica-schist inclusions.	1935: mapped. 1964: examination by Nfld. 1966: chip sampling 1968: trenching.	1,000,000 SiO_2 grade unstated c 1967 (Nfld OFR 888, p 58, 1976)		Up to 99.40% SiO_2.
NFLD-22	RIOCANEX Riocanex Inc. (90% int) 11 O/10, 15 47°45' 58°58'20"	Deposit close to or in Cape Ray Fault. Gold with very fine grained sulphides in 2 south 65° dipping qtz vein-graphitic-chlorite schist zones. Three zones, 2 of which are 1,600' apart in high grade metamorphic terrane.	1968: discovery, Brinex option, Philips option. 1970's: dd by Amax. 1977: optioned by Riocanex, dd, discovery of No. 4 or Western zone. 1978-79: dd, trenching.	ind: 800,000 at 0.23 oz/t Au 1979 (Rio Algom L, 1979 AR) or prob & poss: 1,270,000 at 0.2 oz/t Au, 0.5 oz/t Ag (incl dil) to max 500' 1981 (NM 5/03/81)		Substantial Cu-Pb-Zn is also present in the No. 4 or Western zone.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NFLD-23	STRICKLAND PROSPECTS Fee Simple Grant Strickland Family 11 O/16 47°48.8' 58°16.5'	Two zones 1,640' apart - in Ordovician Bay du Nord Group sheared felsic volcanics. In South Cu zone, cp with py, po, rare sph, gal as veinlets and disseminations in siliceous schist. In N zone, carbonate gangue present, with sph, gal, asp, tetrahedrite. Native gold reported to be in cp. Deposit (N zone ?) traced for 2,000' and width up to 10.5'.	1936: discovery by Alex Strickland. 1937: dd, trenching by Ventures. 1965: dd by Kopan Devs L. 1967-68: airborne and ground EM surveys, O'Brien GML. 1968: dd, Long Lac Mnrls Expl. L. 1979: investigated by Falconbridge Nickel ML.	128,000 at c 7.32% Zn; 3.36% Pb; 7.26 oz Ag across 4', length 800', depth 400' plus 27,000 in an upper minor zone (North Zone ?) 1937 ? (Nfld Inv 11 O/16 Zn 1, 1973)	In N zone up to 20.75% Zn; 22.35% Pb; 0.31% Cu; 33.00 ozs Ag/t; 0.2 ozs Au/t S zone up to 3.87% Cu, 6.12 ozs Ag/t.
NFLD-24	GULCH COVE (GREY RIVER) 11 P/10 47°35.7' 56°59.9'	Ordovician ? qtzite exposed over a distance of 1 mi and thickness 200'-600'. Minor mica and mag.	1957: mapped by ASARCO. 1967: feasibility study by Res Engineering of Can. 1967-68: geol map; dd by Nfld. government. 1972: beneficiation tests.	400,000,000 SiO_2, grade unstated c 1957 or 12,000,000 at 95.5% SiO_2, 1.9% Al_2O_3 1967 (Nfld Inv 11 P/10 Sia 1, 1973)	
NFLD-25	GREY RIVER SETTLEMENT Terra Nova Props L 11 P/11 47°35.5' 57°06.3'	Wolframite and minor scheelite in qtz veins. Vein system traced for about 5,000' on surface. A 2,000' section avg about 1% WO_3 over 3'. A second zone is 900' long. Other metallic mnrls incl py, mo, bismuthinite, bismuth and marcasite.	1955: discovery. 1956-59: geol, prospecting, trenching, geochem. 1959-60: geochem, prospecting. 1962: sampling. 1965: dd. 1967-69: 5,271' adit, dd.	assured plus prob: 360,000 at 1.09% WO_3 c 1969 (Pers comm, J A McGregor, Abitibi-Price Inc, March 1982)	1,725' section considered to have economic potential.
NFLD-26	GREAT BURNT LAKE Terra Nova Props L 12 A/8 48°19'50" 56°10"	N/A	1957-58: geoph, geochem, geol surveys by ASARCO Inc. 1966: discovery, detail geochem, geoph, dd by ASARCO. 1967-71: dd, geochem, SP, Mag, EM.	1,000,000 at 3.1% Cu (undiluted) 1971 (Price CL, 1971 AR)	Property is 45 mi SE of Buchans.
NFLD-27	SOUTH POND Abitibi-Price Inc 12 A/8 48°25'48" 56°08'12"	Py, py, cp as diss and stringers in mafic volcanics.	1950: discovery by ASARCO Inc. 1951-53: 11 ddh's 5,773'. 1956-58: geoph, geochem.	300,000 at 1.3% Cu c 1975 (Queen's U, Centre for Res Studies, Working Paper 22, p 91, 1980)	Property is 45 mi SE of Buchans.
NFLD-28	SKIDDER Terra Nova Props L 12 A/10 48°43'35" 56°55'53"	Stratiform ms sulphs, including py, cp, sph, associated with jasper in basalt.	1971: geochem, dd. 1,977'.	300,000 at 2.33% Cu, 1.95% Zn c 1975 (Nfld Rept of Mng Subcommittee to Buchans Task Force, 1976)	

NFLD-29	TULK'S POND (TULK'S HILL) Terra Nova Props L 12 A/11 48°30'25" 57°11'35"	3 main massive to disseminated sulphide zones in sericitic acid volcanics of Ordovician age. Sulphides incl sph, py, asp, cp, po, gal, and tetrahedrite. Zones 500'-900' long; 25'-45' wide.	1930: noted by W E Moore, Buchans Mng C 1961-67: geochem, geol map, geoph, dd.	600,000 at 1.5% Cu, 1.5% Pb, 5% Zn in 8 sulphide zones 1968 (G E Cooper, M Sc Thesis, Memorial U 1967) or 800,000 at 5.6% Zn, 2% Pb, 1-3% Cu (Centre for Res Studies, Working Paper 22, p 91), Queen's U, 1980)	
NFLD-30	FISCHELL Flintkote Hldgs L 12 B/7 48°18' 58°40.5'	Basal gypsum zone of Carboniferous Codroy Gp.	1947, 71: dd.	10,000,000 gyp, grade unstated 1949 (Nfld OFR 888, p 70, 1976)	
NFLD-31	PLASTER POND Flintkote Hldgs L 12 B/7 48°17.1' 58°42.7'	100' x 500' x 60' block of gypsum of Carboniferous Codroy Gp.	1947: dd by Nfld. 1954: geol mapping. 1971: dd by Flintkote	525,000 gyp, grade unstated 1949 (Nfld Inv 12 B/7 Gyp 2)	
NFLD-32	BISHOP CLAIM Fee Simple Grant 12 B/8 48°23.5' 58°20'	Dyke-like bodies of mag, titanomag, ilmenite cut Ordovician (?) anorthosite. The deposits are 200'-600' long, 30'-50' wide, dip 60° to steep. Spinel and hematite are accessories.	1888: discovered by C R Bishop. 1922: studied by Sir Stopford Brunton. 1942: mapping, dip needle survey by D M Baird for Nfld govt. 1957: mapping by G Rejohn for Brinex. 1961: examined by E R Rose of GSC.	(i) Northern body: 500,000 Fe, grade unstated in outcrop (ii) Southern body: 250,000 Fe, grade unstated in outcrop c 1953 (Nfld Info Circ No 4, pp 75-76, 1953) or (i) Bishop South: 350,000 Fe, see remarks 1943 (ii) Bishop North: 800,000 Fe, see remarks 1954 (Nfld OFR 888, p 71, 1976)	2 assays: 53.5% and 55.5% Fe; 5.69% and 7.76% Ti. 2 assays: 52.63% and 55.06% Fe; 7.43% and 8.13% Ti; 0.41% U in magnetic conc.
NFLD-33	SHEEP BROOK-COAL BROOK Flintkote Hldgs L 12 B/8 48°22.5' 58°26.5'	Gypsum in basal evaporite zone of Carboniferous Codroy Gp. Beds 200'-300' thick.	1966: 6 ddhs totalling 725' by Flintkote on Coal Brook showing.	(i) Coal Brook: 3,000,000 gyp, grade unstated 1949 (ii) Sheep Brook: 150,000 gyp, grade unstated 1949 (Nfld OFR 888, p 71, 1976)	
NFLD-34	ROMAINS BROOK Flintkote Hldgs L 12 B/10 48°33.3' 58°40'	Gypsum of Mississippian Codroy Gp exposed for 1,200'. Thickness 280'.	1955: dd by Nfld. 1970: dd by Flintkote.	2,250,000 gyp, grade unstated 1955 (Nfld OFR 888, p 72, 1976)	Thickest gyp section in ddh is 88' at greater than 90% gyp.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NFLD-35	RONAN (BOSWARLOS) DEPOSIT A Howse (Fee Simple) 12 B/10 48°33.5' 58°49'	Wedge shaped mass of celestite, barite, aragonite and calcite in limestone of Mississippian Codroy Gp. 350' x 250' x 1' to 40' (25' avg).	1923: discovery, 7 pits. 1942-43: dd, plane-table survey, trenching, pitting. 1972: trenching, grid-cutting soil and bulk sampling, geol mapping, dd.	150,000 at 30%-40% barite, 15%-20% celestite c 1942 (CANMET Rept 855, pp 24-25, 1958)	Work on property was performed by Nfld government.
NFLD-36	LEWIS BROOK 12 B/15 48°46.2' 58°33.9'	Asbestos in serpentinized dunite of the early Ordovician Bay of Island Igneous Complex concentrations close to diabase dykes which cut dunite. Fibres up to 2" thick and grades of 30% over 2'. A tabular zone exposed for 300' by up to 9' wide.	1873: first reported by Alexander Murray. 1943: dd by Nfld govt 1946-47: dd, 2 adits (186' + 429') by Asb Corp. 1951-52: u/g work by Nfld Asb L. 1954-55: some u/g work. 1957: detailed geol mapping, prospecting by Cdn Johns-Manville CL.	112,000 tons asb, grade unstated 1951 (Nfld OFR 888, p 75, 1976)	
NFLD-37	CHROME POINT Gibbs Fee Simple Grant 12 B/16 48°46.5' 58°26.2'	Chromite masses as lenses and veins in dunite and peridotite of the early Ordovician Bay of Island Igneous Complex. Masses from .5" to 3' wide and a few inches to 18' long in a zone 750' long.	1899: discovery 1901: chromite float found in an area 2,000' x 900' by C A Meissner, 7 trenches. 1940-41: investigated by Springer Sturgeon GML. 1961: geol mapping, sampling, SP, mag, grav surveys by Nfld Govt.	10,000 at 25%-30% Cr_2O_3 1961 (Nfld OFR 888, p 75, 1976)	The property was optioned by Beth-Can Mng C in 1977.
NFLD-38	SPRINGERS HILL Beth-Can Mng C 12 B/16 48°47.8' 58°26.3'	Dis to ms chromite in irregular lenses in early Ordovician dunite of the Bay of Island Igneous Complex. Significant chromite concentration over 300 m x 30 m, with the largest lens 10 m x 40 m.	1941: staked by Springer Sturgeon GML, dd, stripping, trenching. 1961-65: geol mapping, mag, grav, SP, IP surveys, dd by Nfld govt.	11,897 at 36.97% Cr_2O_3 1941 (Springer Sturgeon GML, 1941 AR) or 9,000 at 30% Cr_2O_3 1962 (Nfld OFR 888, p 75, 1976)	18 small chromite showings in an area of 2.5 x 2.5 mi.
NFLD-39	YORK HARBOUR MINE York Cons Expl L 12 G/1 49°03'00" 58°18'30"	Massive sulfide and stringer or vein bodies in Ordovician intermediate basic volcanic rocks of the Blow Me Down pluton. Lenses consist of py, sph, cp, po. Stringer sulphides incl py, cp, sph, qtz, rare gal and ba. At least 11 sulphide bodies within 1,600' x 800' ? and bodies varying from 70'-120' long; 10'-30' wide; 180' in height. Cu 2.44-4.8%; Zn 7.06%-19.3%. Limonite and little malachite are secondary mnrls.	1897-1912: prod of c 50,000 tons; 4 shafts, main 485' deep, 6 levels and 800' adit. 1953-55: u/g work, geol and geoph surveys, dd. 1955-56: dd by Big Nama Creek ML. 1965-66: adit driven 2,500'. 1969-70: geol mapping, u/g work, dd by Long Lac Mnrl Expl L (under option) 1977-78: further dd.	prob: 282,000 at 1.92% Cu, 4.67% Zn (incl 20% dil) 1974 (CJES vol 11, p 53-69, 1974)	Economic appraisal in 1970 indicated that the mining of the small ore zones would not be profitable. As a result Long Lac terminated its option. Because of appreciable increases in Cu and Zn prices in late 1978, York planned additional drilling.

NFLD-40	GULLBRIDGE Gullbridge ML 12 H/1 49°11.8' 56°09.3'	Tabular lenses of massive and disseminated sulphides in cordierite-anthophyllite-andalusite-chlorite alteration of volcanics of Ordovician Roberts Arm Fm. Length to 1,400'; width to 210'; max depth 620'. Metallic mnrls incl cp, py, po, mag, ilm, sph, gal.	1905: discovery. 1918: shaft sinking, u/g work. 1922-23: dd by Reid Nfld CL. 1928-29: dd, geoph work. 1939-40: dd, by Nfld Geol Surv. 1950-53: expl by Falconbridge. 1956-58: shaft deepened; u/g work, dd by Maritime Mng Corp L. 1964-67: shaft deepened to 1,050'; u/g work. 1967-71: dd, geoph work, prod of 3,088,835 tons Cu ore. 1975: dd. 1976: expl completed.	2,090,000 at 0.8% Cu 1970 (Nfld OFR 888, p 81, 1976)	First Maritime Mng Corp L reported in 1972 that due to a combination of decreased grade, quantity of ore and low Cu prices mng operations were terminated.
NFLD-41	LAKE BOND Reid Nfld CL 12 H/1 49°01'39" 56°11'11"	Py, sph, cp, gal, po, trace ag in Ordovician to Silurian mafic volcanics, sulphs occur as dis, stringers, veinlets.	1952-55: geol, geoph, geochem, dd, discovery, New Jersey Zinc. 1956-60: dd, IP, New Jersey Zinc. 1970: geochem, geol, Noranda Expl CL. 1975-78: dd, Cons Morrison.	pot: 5,000,000 at 1.25% Zn, 0.20% Cu to 400' depth c.1975 ? (Cons Morrison Expl 1977 AR)	
NFLD-42	HAND CAMP Nfld Expl CL 12 H/8 49°16'51" 56°04'25"	Py, cp, sph, gal, au in shear zone in volcanics of Ordovician to Silurian age. Deposit is 1,200 m long, 25 m wide.	1928: discovery, tr, geol, geoph, dd. 1940-41: res, dd. 1956: dd. 1972-73: geoph, geochem. 1978-79: geol, geoph, dd by Falconbridge Nickel ML.	2,500,000 at 2.62% Cu 1930 (Nfld OFR 888, p 84, 1976)	This deposit also contains up to 0.39 ozs Au/t and 1.64 ozs Ag/t.
NFLD-43	COLCHESTER E. White 12 H/9 49°38'21" 56°04'55"	Py, cp, po, minor sph, gal in chlorite schist shear zones in intermediate-basic volcanics of Cambrian Lush's Bight Gp. Zone 1,400' x 250'; individual lenses of sulphides 10' to 100' long and 10' to 20' wide. Cp also in qtz-carbonate veins.	1878-1901: 3 shafts each 300' deep, u/g work. 1951: sampling. 1963-67: geochem, geol surveys, mag, dd. 1969-70: geol, geoph, geochem, stripping, trenching, dd by Cerro Mng C of Can L (option).	ind: 1,000,000 at 1.3% Cu to 500' plus on dumps: 2,200 at 1.8% Cu 1966 (Nfld OFR 888, p 86, 1976)	
NFLD-44	LITTLE DEER POND Brinco Mng L 12 H/9 49°35'20" 56°01'08"	Massive sulphide veins in chloride schist zone of Ordovician Lush's Bight Gp. West zone vein about 600' long, mainly with py, cp, width about 8', grade 2% Cu. The deposit is split by an area of waste rock to form two vein type bodies.	1952: explored by Falconbridge. 1955: prospecting & geochem. 1960-68: geol, mag, EM, SP, geochem, dd, u/g dev, 3,000' drift from Whalesback mine by Brinex to lower deposit. 1974-75: prod of 500 tpd by Green Bay Mng CL via a 12° 1,080' decline to upper orebody, milled at Whalesback in converted mill. Prod 82,259 tons by Green Bay.	proven: 315,000 at 1.5% Cu incl 20% dil plus poss: 60,000 at 1.7% Cu 1974 (NM 13/06/74)	Copper operation closed in 1975 due to lower Cu prices and increased operating costs.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NFLD-45	RENDALL-JACKMAN R G Rendell 12 H/9 49°33'47" 56°10'52"	Massive py lenses with some sph and cp in nodules, stringers or lenses in chlorite schist shear zones of Cambrian Lush's Bight Gp volcanics. Two lenses from 600' to 850' long and 100' to 200' wide.	early 1900's: prospecting, shaft sinking; about 1,200 tons of 3% to 4% Cu produced. 1935-36: geoph survey by Hans Lundberg L. 1938: geol by Nfld Geol Surv. 1939: dd. 1955: dd Kontiki Ld & Zn ML. 1959: geochem by Brinco. 1966-67: geochem, SP, IP, dd. 1969: mag, dd by Brinex.	proven: 11,081 Cu, grade unstated (Nfld OFR 888, p 86, 1976)	Up to 4.65% Cu and 0.16 ozs Au/ton over 2'.
NFLD-46	CONSOLIDATED RAMBLER (BIG RAMBLER POND) Cons Rambler ML 12 H/16 49°52'50" 56°05'45"	Disseminated py, cp, po and cp-po stringers in qtz chlorite schist within volcanics and sedimentary rocks of the pre-Ordovician Pacquet Harbour Gp. Ore in pipe-like lens 1,000' long, 700' wide.	pre-1958: discovery. 1962: geochem, dd. 1969: dd. 1970-71: u/g dev, prod of 40,847 tons Cu ore milled at Rambler mill.	ind: 50,000 at 1.5% Cu 1968 (Cons Rambler ML, 1969 AR)	The tonnage was estimated prior to mng operations.
NFLD-47	CONSOLIDATED RAMBLER (EAST MINE) Cons Rambler ML 12 H/16 49°54'05" 56°03'35"	Disseminated py, cp, po in qtz-chlorite schist within volcanics and sedimentary rocks of the pre-Ordovician Pacquet Harbour Gp. Orebody topped 400' below surface was 400' wide, less than 100' thick and traced down dip for 3,000'.	1961-65: gravity, SP, dd, shaft sinking, shaft to 1,125' and 7 levels. 1966-74: u/g mng, decline driven to 1,200' horizon, prod at 1,000 tpd; 2,130,854 tons milled to 1974.	proven: 83,000 at 1.26% Cu to a depth of 1,190' 1973 (Cons Rambler ML, 1973 AR)	Prod was suspended after mng a further 32,340 tons. Escalating prod costs and reduced Cu prices made the limited remaining reserve tonnage unprofitable.
NFLD-48	MUD POND Noranda Expl CL 12 H/16 49°58'25" 56°04'03"	Dis, ms, stringers py, cp, po in chl-qtz schist in Ordovician or earlier age volcanics. Zone 30 x 90 5.1 m.	1937: discovery, str, tr. 1966-68: geol, geoph, geochem, dd, shales 4,000'. 1979-80: geol, geoph, geochem.	100,000 at 1% Cu 1968 (Nfld Inv, 12 H/16, Cu 8, 1981)	Too small.
NFLD-49	TERRA NOVA MINE B. Philpott 12 H/16 49°55.3' 56°13.7'	Massive py, cp, po, sph (mainly cuperiferous) in chlorite schist of Ordovician or earlier age. Py up to 80%-90% with reported native gold.	1862-1915: discovery and mng. 1902-04: 33,812 at 2.41% Cu, some Au and Ag produced; 5 shafts, No. 5 to 640' with 10 levels and an adit. 1960-61: u/g workings dewatered, surveyed and mapped; geol, mag, EM, grav by M J Boylen Engineering Offices.	20,000 at 2.5% Cu, 0.049 oz/t Au, 0.29 oz/t Ag in the dump 1939 (Nfld OFR 888, p 90, 1976)	Dewatering of the old mine in 1961 was abandoned in the face of poor ground conditions.
NFLD-50	HODDER D B Parsons (in 1963) 12 I/1 50°07'30" 56°08'20"	Cp, py, po, marcasite, bornite, and chalcocite in 2 bands of marble in calcareous gneiss. Cp main mnrl in veinlets and blebs. Lower band 5' thick exposed for 60', upper band 6' and 20' long.	1913: discovery. 1923-25: shaft sinking, trenching, dd. 1956: dd.	30,000 at 2% Cu 1956 (Nfld OFR 888, p 93, 1976)	Up to 17% Cu, tr Au, Ag. Low grade sample, 3.5% Cu. In upper band 4% Cu over 4'.

NFLD-51	ROUND POND DEPOSIT John Leslie & Assoc. 12 P/8 51°15'26" 56°15'55"	Sph is in dolomite chert breccia, porous dolomites, pseudobreccias, collapse breccias of the Ordovician St. George Gp. Sph is dis and py locally up to 95% occurs over 30 cm.	1968: prospecting, mapping, discovery. 1969-71: geochem, dd. 1975: dd. 1979-81: geochem.	ind: 152,400 mt at 2.5% Zn 1970 (Nfld Inv, 12 P/8, Zn 15, 1981)	Too small.
NFLD-52	MICHELIN Brinex 13 J/12 54°35'03" 59°59'10"	Pitchblende is finely disseminated in rhyolitic rock of the Proterozoic Aillik Gp. The uranium zones are lenticular up to 5 m thick for several hundred meters along strike and dip for a total length of more than 1,000 m. Associated mnrls incl calcite, hematite, py, sphene and fluorite. Pitchblende granules less than 10 mm are in sphene.	1968: discovery as a result of airborne gamma-ray survey. 1968-69: trenching sampling, dd. 1975: 2,200' long decline, bulk sampling, metallurgical testing by Brinex-Urangesellschaft.	ind and inf: 7,181,000 at 2.40 lbs/t U_3O_8 plus poss: 1,300,000 lbs/100 VF U_3O_8 below 850' 1978 (Brinco L, 1978 AR)	This resource figure has been adjusted for dilution and mng recovery. O/P mng scheduled to begin in the second part of 1981. Edison Dev Can Inc was to arrange financing of mine and mill construction. Subsequently postponed.
NFLD-53	NASH LAKE Brinex 13 J/13 54°54'30" 59°37'06"	Pitchblende is in laminated tuff of the Proterozoic Aillik Gp. Red coloration with relatively high uranium content. 3 zones along a 2.5 mi strike length.	1968: located by ground follow-up of an airborne scint survey. 1968-74: dd, geochem, airborne geoph, boulder tracing, ground geoph.	ind: 181,500 mt containing 363,000 kg U_3O_8 c 1974 (FP 05/07/75)	Relatively small deposit of moderate grade in the same region as Michelin and Kitts Pond.
NFLD-54	KITTS POND Brinex 13 J/14 54°59'45" 59°29'30"	Pitchblende and traces of thorium in argillite of the Proterozoic Aillik Gp in the contact zone between basaltic lavas and gabbro. The argillite and ore zone have been folded along a 1,600' length. Uranium concentrations over less than 10 m width and 10 to 300 m length, and to a depth of about 600'. Associated mnrls incl py, calcite, hematite, sphene, and fluorite.	1956: discovery Walter Kitts for Brinex. 1957-58: trenching, dd, adit by Brinex. 1967-77: airborne rad and EM, ground mag, rad geochem. 1974: decline from adit.	ind and inf: 259,030 at 11.43 lbs/t U_3O_8 incl dil c 1978 (Brinco L, 1978 AR)	To be in prod about 1982. Edison Dev Can Inc, subsidiary of Commonwealth Edison C was to arrange financing of mine and mill construction. Subsequently postponed.
NFLD-55	TEN MILE LAKE Rio Tinto Cdn Expl L (in 1967) 13 L/1 54°14' 62°25'	Four beryllium bearing zones are in gneiss, migmatite, and metasomatic zones along shears in syenite. Be mnrls incl barylite, gadolimite, eudialyte, eudidynite, and very rare marganite. Pyrochlore is the main niobium-bearing mnrl. Monazite, allanite, tripilite are accessory mnrls. Zone A, 13' wide; "B" 1,500' long, 60' wide; "C" 265' long, 54' wide; "D" 700' long, 14' wide.	1956: discovery, geol mapping, prospecting, soil geochem, scint surveys, sampling by Kennco Expls. 1957: trenching, geoph surveys, dd, sampling by Frobisher. 1959: stripping, geol, berylometer surveys, outlining Be zones by Rio Tinto Cdn Expl L. 1961: dd. 1967: detail mapping by Rio Tinto.	11,000 T/VF at 0.35%-0.40% BeO 1959 (Nfld Inv 13 L/1 Be 1, 1973)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES		REMARKS
NFLD-56	STRANGE LAKE Iron Ore C of Can 14 D/5, 27 A/8 56°18' 64°07'	Concentrations of rare mnrls in veins, fluorite breccia zones of hydro-thermal alteration, within an alkaline complex of Helikian age. The mnrls contain rare earths, Cb, Ta, Be, phosphates, Zr (in giftinsite).	1978: geoph. 1982-83: exploration.	N/A		Up to 50 years' supply of zirconium, yttrium, beryllium, tantalum and columbium material. (St. John's Daily News 5/4/83, p 24). Deposit straddles the Que.-Labrador boundary with the major known part on Nfld. side.
NFLD-57	ROWSELL HARBOUR Fee Simple (in 1906) 14 L/14 58°56' 63°17'	Relatively flat py-rich zone in Precambrian Ramah Gp. Length over 5,000', thickness 4'-11'. Massive sulphides incl also marcasite and po.	1901: staking. 1904-05: explored by Dupont C, 8 test pits. 1906: 2 short adits, some drifting by DOSCO. 1934-36: minor operations.	2,500 T/VF py, grade unstated 1946 (Nfld Inv 14 L/14 Pyr 1, 1973)		samples: 38.00%-44.15% S, 39.44%-41.24% Fe, 0.63% Cu, 0.07% Se.
	NOVA SCOTIA					
N.S.-1	MONTAGUE GOLD DISTRICT Montague GML (in 1933) 11 D/12 44°43.1' 63°30.8'	Gold in qtz veins interbedded with qtzite and slate of the Cambrian Goldenville Fm. Veins in area 1 mi x 600'.	1860's: discovery. 1900's-24: intermittent activity 1924: shafts 325'; 425'. 1933-39: prod c 68,139 ozs Au.	N/A	Au	One of the top gold producers in N.S. Lack of capital and low bullion returns forced the company to close operations in 1939.
N.S.-2	MOOSE RIVER Moose River G Mng CL (in 1947) 11 D/15 44°58.9' 62°56.7'	Interbedded gold bearing type veins in a belt of slate at least 1,500' wide.	1866: discovery. 1888-1908: prod. 1908-40: limited prod from Moose River district 1947: shaft dewatering, drifting, bulk testing on Blue lead.	N/A	Au	In 1936 Magill shaft collapsed, work ceased. The amount of gold bearing material remaining is unknown.
N.S-3	COCHRANE HILL Northumberland ML 11 E/1 45°14'58" 62°00'50"	Gold-bearing qtz veins in folded metasedimentary rocks of Cambrian Goldenville Fm. Qtz veins from 1" to 12" thick either singularly or in a zone up to 75' wide, length about 1,800', depth about 350'. Native gold, asp, py, po, gal.	1868: discovery. 1869-1928: mng operations from Mitchell shaft 220' deep and Ross shaft 225' deep, 10 stamp mill, about 11,700 tons milled. 1930-35: sampling, u/g work, shallow shaft. 1961: SP, long wire EM. 1973: mag, VLF-EM, prospecting. 1974: dd (35 holes, 14,500'). 1975: bulk sample, metallurgical test. 1979-80: VLF-EM, geochem, bulk sampling, at least 50 ddh,	(i) New Zone: 300,000 ind at 0.29 oz/t Au (or 0.17 oz/t Au cut) (ii) Bluebird Zone: 180,000 ind at 0.15 oz/t Au (iii) South Zone: 140,000 ind at 0.15 oz/t Au 1975 (NM 16/06/77) or ind: 382,091 at 0.25 oz/t Au, 5.6' wide or 582,049 at 0.17 oz/t		In 1981, Northumberland ML acquired 70% interest in the property.

			100 tpd cyanide mill testing. 1982: heap leach testing.	Au, 14.2' wide or 1,078,831 at 0.13 oz/t Au, 53' wide 1981 (NM 19702/81)	
N.S.-4	CARIBOU DISTRICT 11 E/2 45°03'37" 62°56'09"	Gold in qtz veins in Cambrian and Ordovician Meguma Group metasedimentary rocks, veins traced at least to a depth of 1,000', contain some scheelite.	1867: prod began. 1869-1947: 91,353 oz Au prod. 1957: dd. 1973: sampling.	26,000 tailings at 0.02 oz/t Au at Lake and Caffrey mines c 1923 (GSC EG 4, p 138, 1927)	Formerly the second largest gold district in N.S.
N.S.-5	FIFTEEN MILE STREAM B C MacKenzie (in 1974) 11 E/2 45°08.4' 62°32.1'	Gold in qtz veins in slates and qtzite of the Cambrian Goldenville Fm.	1867: discovery. 1883-1911: u/g dev, intermittent prod of c 20,000 ozs Au. 1927; 1932: prospecting, testing, dd. 1940-41: shaft sinking, drifting.	5,000 at 0.03-0.08 oz/t Au in tailings dump (NM 11/04/74)	Western Quebec MCL optioned the property in February 1974.
N.S.-6	ELMSVALE 11 E/3 45°05'15" 63°04'	Three major clay horizons.	1968: dd.	ind: 600,000 clay material 1968 (NS AR 1969, p 66)	
N.S.-7	GAYS RIVER Can Wide ML 11 E/3 45°01'55" 63°20'30"	Sph and gal as fine graded diss. and blebs in fossiliferous dolomite of the Mississippian Windsor Gp. Zone about 2½ mi long, about ¼ mi wide, an average thickness of 15'. Trace amounts of Ag, Cd, Mn, Sb, Ag, Co, Fe.	1824: discovery of Pb in area. 1873-74; 1928: prospect pits and trenches. 1951-52: sampling dd. 1972-75: geochem, geoph, dd. 1975-76: 2,500' decline. 1976-79: u/g work, sampling, bulk mill testing, mine plant construction. 1979-81: prod.	5,200,000 at 2.78% Pb and 4.23% Zn 1980 (Sec, 10-K Form, Imperial Oil L, Feb 1981)	Operations ceased due to complex structure, lower grade and tonnage, water problems.
N.S.-8	RENFREW East Hants GML (in 1958) 11 E/4 45°00.3' 63°37.8'	Qtz veins from 200' to 1,350' in length on south limb of an unsymmetrical anticline in qtzite and slate of Cambrian Goldenville Fm. Veins in an area of 8,500' x 9,000'.	1861: discovery. 1862-1872: mng operations. 1883-1905: intermittent mng. 1911-13: intermittent operation. 1927-32: minor prod. 1938-40: dev work. 1952: Cameron shaft deepened to 180'. 1954-55: bulk testing.	N/A Au	Gold prod above avg of the NS mines and gold material probably remains.
N.S.-9	WEST GORE ANTIMONY MINE (RAWDON) Hants County Mng CL (in 1975) 11 E/4 45°05'00" 63°47'30"	Stibnite with py, asp, native antimony and gold in veins within slates and qtzite of Ordovician (?) Halifax Fm. Six veins, one traced for 2,700' in which stibnite bearing lenses are from 6" to 24" wide and from 50' to 60' in diameter.	1880: discovery of antimony in the area. 1884-98: dev and mng, 2 shafts to 175'. 1904-09: mng, 3 shafts, u/g work, 100 tpd mill. 1914-17: mng, main shaft to over 850', 9 levels. 1942-45: dev work. 1951: dd. 1952: metallurgical testing.	35,000 in dumps containing 977,854 lbs Sb and 2,046 oz Au c 1951 (NM 26/07/51)	Since 1917 most work done on Brook or Berggren Vein from which a sample assayed 56.34% Sb and 0.68 ozs Au/ton. In dumps, grade about 1.29% to 1.78% Sb.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.S.-10	SMITHFIELD (LEADVILLE) Chib-Kayrand Copper ML (in 1964) 11 E/6 45°16'30" 63°04'45"	A gal-sph body at base of Mississippian Windsor Gp on top of red sandstones and shales of Horton Gp. The deposit, about 500' long, about 20' wide, incl also py, asp, cp, malachite, azurite, barite. A py body with low Zn concentrations is found in the Horton Gp rocks.	1875-78: discovery and dev work. 1881-84: dev work, shafts sunk, smelter erected, small prod of 300 tons. 1894-95: primary operations, dd. 1926: u/g work, shaft sinking, deepest shaft 115'. 1951-52: shaft to 235', u/g work, dd. 1964: dd.	proven and ind: 500,000 at 6% Pb-Zn 1952 ? (GSC Mem 297, p 95, 1956)	1952 work on 200' level opened up 150' averaging 12.37% Pb-Zn over 10'.
N.S.-11	LOCHABER LAKE Great Horn Mng Synd Inc 11 E/8 45°24'15" 62°03'	Disseminated cp, py, gal, sph with minor bornite in argillaceous/limestone of Devonian Knoydart Fm. Deposit up to 200' thick, strike length 700' with malachite in bedding planes. Cu varies between 0.2% and 0.5%.	1970: discovered during geochem survey, stripping, trenching, dd.	ind: 2,290,000 at 0.33% Cu (0.2% Cu cut-off) plus inf: 3,440,000 Cu, grade unstated to 1,000' below surface c 1972 (Great Horn Mng Synd Inc, Rept 1972)	The discovery in 1952 of a similar occurrence 400' south of this deposit led to work in this area.
N.S.-12	BLACK LAKE 11 E/11 45°34.5' 63°19.8'	N/A	N/A	13,608 dry dtm c 1944 (NS AR 1944, pp 113-114)	Total volume soft diatomite in Black Lake is 84,000 cu yds.
N.S.-13	CHAIN LAKES 11 E/11 45°31.5' 63°24.5'	N/A	N/A	(i) Pond 1: 6 acres, 5,000 dtm in top 1' to 4' (ii) Pond 2: 4 acres, 5.5' deep, 2,500 of fair quality material (iii) Pond 3: about 3.5 acres, 7' deep, 2,200 buff mud, 2,800 dark mud (iv) Pond 4: about 2.5 acres, 6.5' deep, 2,000 buff mud, 1,000 dark mud (v) Pond 5: about 6.25 acres, about 15' deep, 4,000 mud containing large percentage dtm (NS Mnrl File 14-D-3, 1964)	Formerly worked by Int'l Diatomite Industries L.
N.S.-14	TROUT LAKE 11 E/11 45°34' 63°29'	Deposits varying in thickness from 1' to over 21' underlie about 26 acres.	early 1920's: surveyed and sampled by Dept Mines, Ottawa. 1949: sampling.	42,170 dtm, finished product 1944 (NS AR 1944, p 110) or 50,000 dtm finished product 1949 (Maritime-Barytes L 26/07/51 prospectus)	About 160,000 cu yds dark diatomite (mud) and about 100,000 cu yds white to grey diatomite.

N.S.-15	MALAGASH Cdn Salt CL 11 E/14 45°47.5' 63°19.5'	Sylvite is in a number of bands in a salt mass of Mississippian Windsor Gp. There are two potash bearing zones.	1917: discovery, dd. 1918: shaft sinking. 1924-59: salt mng operations.	proven: 80,000 at 8% KCl; 17% $MgCl_2 2H_2O$ 1964 ? (NS Research Foundation, AR 1964)	Former salt producer. Workings down to a depth of 1,130' and extend for over 1,000' along strike.
N.S.-16	DORT'S COVE Cdn Alumina Corp L (in 1958) 11 F/6 45°20'30" 61°28'30"		1957: 6,000' dd, pitting, bulk sampling.	30,000,000 at 25% Al_2O_3 1957 (NM 16/10/58)	Andalusite-bearing body in an area of about 1,500' by 1,000' to a shallow depth.
N.S.-17	STIRLING Keltic Mng Corp L (in 1963) 11 F/9 45°43'40" 60°26'15"	Disseminated to massive sulphides in 3,500' x several hundred feet wide zone in sericite chlorite carbonate schist of middle Cambrian Bourinot Gp. Sulphide lenses up to 400' long, 60' wide incl py, sph, cp, gal, tenantite minor gold and silver.	1895: discovery. 1916-18: dd. 1925-26: dev. 1927-30: dev, prod. 1935-38: prod of 35,000 tons concentrate. 1950-52: u/g work, new mill built. 1952-56: shaft to 1,172', 8 levels, dd, geoph, geochem; 863,115 tons produced.	prob: 200,000 Pb grade unstated in pillars 1964 (J P Messervey 16/12/64 in Prospectus, Keltic Mng Corp L)	Average grade of ore milled 1952-56 was 5.5% Zn; 1.3% Pb; 0.66% Cu; 0.028 oz Au/t; 2 ozs Ag/t.
N.S.-18	GLENDALE (RIVER DENY'S ROAD) 11 F/14 45°51.2' 61°19'	Amorphous graphite in Precambrian limestone close to contact with sandstone. Zone 50' to 100' wide traced for 1,000' and contains crushed graphitic shale or altered coal seams, altered limestone, and nodules of py.	1931-32: 20' adit, 2 shafts 22' and 25', 35' inclined shaft.	N/A Grp	Samples assayed 47.0%; 41.9%; and 60% graphitic carbon.
N.S.-19	LIME HILL Silvermaque Mng L 11 F/14 45°46'50" 61°09'15"	Disseminated sph and solid bands in Precambrian George River Gp limestone interbedded with garnet, qtz, biotite, schist inclusions in Devonian granitic rocks. Some py, po and cp with serpentinized limestone and in places there is up to 10% Zn over widths of 20' or 25'.	pre-1928: discovery. 1956: geochem, EM. 1958: geol and mag surveys, horizontal loop EM, dd, prospecting. 1960: geol, geochem, geophy, trenching. 1964: geol, soil sampling. 1968: dd. 1974-76: dd, trenching, geochem, grav.	ind: 150,000 at 9.0% Zn c 1968 (Patino Mng Corp L, 1968 AR) or 2,000,000 at 2.5% Zn c 1977 (NS Paper 77-7, p 11, 1977)	There are 4 zones of mineralization, one at least 880' long and from 6'-25' wide. Tungsten concentrations in ddhs led to a prospecting programme in 1978, which was unsuccessful.
N.S.-20	ENON Kaiser Celestite Mng L (in 1977) 11 F/15 45°48'22" 60°32'25"	Celestite in Mississippian-Windsor Gp and in an area of 2,400' by 1,400', in a sequence including limestone, siltstone, conglomerate, gypsum and anhydrite.	1962: discovery, trenching. 1963: dd. 1969-70: expl and o/p dev, concentrating plant built. 1971-77: full prod; over 88,000 tons of celestite concentrates produced.	1,929,594 Sr, grade unstated 1977 (NS Bull No 4, p 87, 1978)	Plant capacity: 225 tpd celestite concentrates; 90 tpd strontium carbonate and up to 100 tpd sodium sulphate. Prod ceased in 1977 due to reduced demand for Sr products.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.S.-21	DEEP COVE BROOK Louisbourg Prop. Hldgs. L 11 F/16 45°53'25" 60°06'49"	Diss. veinlets of mo, py, cp in monzonite. Nearby are Cu-Bi-Ag zones.	1962-64: geochem, SD, IP, dd. 1971-72: str, percussion drilling. 1976: 5 ddh's for 1,700 feet. 1978-79: EM, dd.	Inf: 6,158,000 tons containing 5,700,000 lbs Cu 4,400,000 lbs Mo 1,150,000 lbs Bi c 1978 (NS Asmt Rept II F/16D; 07-C-31-(02), 1978)	In 1980, optioned by Amax of Canada L.
N.S.-22	YAVA (Silver Mine) Yava Mines ML 11 F/16 45°52'30" 60°25'40"	Finely diss gal in Pennsylvanian sandstone. There are 3 distinctive zones with some Zn and Ag. Pb bearing area about 13,000' x 2,000' x 30'.	pre-1880: pits. 1929: dd, pits, trenches. 1951: dd. 1961-64: EM, soil sampling, dd. 1970: feasibility study, pilot plant bulk sample test. 1973: dd, 247 holes 87,844 feet. 1977: detail dd. 1979-81: prod.	Poss: 20,000,000 at more than 3% Pb 1980 (NM 28/02/80) or 960,000 at 5.46% Pb (CMH 1981-82 p 47-48)	Operations ceased in 1981 due to decreased lead price and higher than anticipated costs.
N.S.-23	COXHEATH J E Riddell (in 1971) 11 K/1 46°05' 60°22'	Cp, py with minor Au in 4 parallel, steeply dipping shear zones in qtz diorite and andesite. Cp and py associated with hematite, mag and tourmaline. Cu-Mo areas are in veins and fractures cutting volcanics and intrusive rocks of Cambrian and Ordovician age.	pre-1875: discovery. 1881-84: No. 1 shaft 176', No. 2 shaft 190'. 1886-91: winze, shaft sinking. 1893-99: No. 2 shaft at 350', 4 levels, intermittent prod, 3,000-5,000 tons. 1929-30: u/g work, dd, shaft sinking. 1947: u/g workings dewatered, geol and geoph surveys. 1952: dd. 1963-67: geol, geochem, geoph, dd, IP, bulldozing.	proven ?: 50,000 at 3%-5% Cu above 250' level c 1901 (CIM Trans, Vol 70, p 318, 1967) or poss: 100,000 at 3.145% Cu over a width of 4.2' (NM 12/09/63) plus substantial amounts of Cu, Mo and Au in central parts of the Coxheath Intrusion.	On 340 level, zone 700' long and 12' wide averages about 7% Cu. Separate from cp in shear zones.
N.S.-24	O'HANDLY (BOULARDERIE ISLAND) 11 K/2 46°09' 60°31'45"	Bog manganese, 1' to 7' thick in an area of 27 acres.	1915: trenching.	200,000 Mn, grade unstated c 1932 (NMI est)	Known since 1878. Samples averaged between 11.04% and 44.33% MnO_2; 12.49% and 35.50% Fe_2O_3; 10% and 57.76% Insol; 35.52% H_2O.
N.S.-25	CAMPBELL VEIN (T E CAMPBELL) Conwest Expl CL 11 K/3 46°07'25" 61°08'00"	Barite vein 6'-12' wide, traced for 550' in a fault at contact of sandstone of Mississippian Horton Gp and rhyolitic tuff of Mississippian Fisset Brook Fm. The vein appears to be the continuation of the MacMillan vein.	1903: opened up, 450' tunnel on the vein, open cuts. 1903-39: intermittent prod. 1907: expl. 1954-56: dd. c 1969: gravity, EM, geochem, dd.	ind: 385,902 at 36.70% $BaSO_4$, 23.23% CaF_2 c 1972 (NS Bull No 4, p 298, 1978)	The amount produced from the Campbell Vein is not known.

N.S.-26	EVANS (MACKAY or TROUT BROOK) W Papke (in 1971) 11 K/3 46°06'03" 61°07'45"	Fluorite-barite vein 14"x14' wide, traced for 330' in fault contact between welded rhyolitic tuff of the Mississippian Fisset Brook Fm and Horton Gp sedimentary rocks.	1890: veins discovered in the area. 1941-42: trenching, 80' inclined shaft, short adit, prod, dd. 1943: dd, metallurgical testing.	330' x 14' Ba-F, grade unstated (Yale Ld & Zn ML, TSE Fil Stat 1358, 1965)	1,000 tons averaging from 47% to 60% CaF_2 taken from here.
N.S.-27	J.A. MacDOUGALL PROSPECT Int'l Mogul ML 11 K/3 46°06'03" 61°07'20"	Veins containing barite and fluorite in a fault cutting Mississippian Fisset Brook Fm welded tuff. Lengths of 40' and 140'; widths of 7' and 9'.	1945: short adit, 2 test pits. 1965: mapping, dd. 1968-72: geoph and geochem surveys, dd.	ind and prob: 599,240 Ba, grade unstated 1972 (NS Bull No 4, p 298, 1978)	$BaSO_4$ between 37.63% and 71.14%; CaF_2 from 8.83 to 16.80.
N.S.-28	JOHNSON Int'l Mogul ML 11 K/3 46°06'40" 61°07'00"	Barite and fluorite veins in Mississippian Fisset Brook Fm. Veins in faults in rhyolite and/or rhyolitic tuff. Lengths of 195' to 400', widths to 62', vertical extent to 800'.	1886; 1894-24: mng operations, adit 250'. 1954; 1965: dd, trenching, mapping. 1968-72: geoph and geochem surveys, dd.	ind and prob: 1,325,900 Ba, grade unstated 1972 (NS Bull No 4, p 298, 1978)	$BaSO_4$ range 21.62-56.43%. CaF_2 range 7.02%-22.82%.
N.S.-29	MacMILLAN MINE Int'l Mogul ML 11 K/3 46°07'33" 61°07'50"	Barite vein 19' wide, 700' long in a fault in welded rhyolitic tuff of the Mississippian Fisset Brook Fm. The vein is probably the continuation of the Campbell and MacDougall vein.	1903: open-cuts, 125' inclined shaft. 1903-39: intermittent prod. 1954-56: dd. c 1968: gravity, EM, geochem, dd. 1969-72: pilot plant testing. 1971-72: geochem, geoph, dd.	ind: 2,353,507 at 28.68% $BaSO_4$, 19.67% CaF_2 c 1972 (NS Bull No 4, p 298, 1978)	Metallurgical tests indicated about a 98% barite recovery to produce a 93% $BaSO_4$ concentrate, and an 80% fluorspar recovery to produce a plus 97% CaF_2 concentrate.
N.S.-30	MEAT COVE Mnrl Expl Corp L (in 1960) 11 N/2 47°00'30" 60°35'	Sph as disseminations, stringers and masses in magnesian skarn of Precambrian (?) George River Gp, a roof pendant in Devonian syenite. Metallic mnrls incl py, po, cp, gal, mag, germanite, bornite, renierite. Nonmetallics incl talc and about 12% brucite.	1953: Aeromag, dd. 1955: 561' adit, 229' cross-cutting, dd. 1968: trenching. 1971: geochem, EM.	ind: 4,400,000 at 4.0% Zn, 0.15 to 0.47 lbs/t Cd 1965 (NM 12/10/72)	Zone traced for a length of 4,500', width up to 350' and contains Cd, Ge, Ag.
N.S.-31	CHEGOGGIN POINT Dom Steel & Coal Corp L (in 1963) 20 O/16 43°52' 66°10'	Qtzite and garnetiferous hornblende schist in Silurian White Rock Fm have been traced for about 6 mi; the latter is a band about 60' wide and averages at least 40% garnet over a width of 30'. The garnets range from .25" to .75".	1945: quarry operations started. 1946-63: quarrrying.	N/A Si-Gnt	Qtzite quarried between 1946-63 on intermittent basis. Material used in manufacture of glass brick, and in open hearth steelmaking operations.
N.S.-32	EAST KEMPTVILLE Rio Algom L 21 A/9 44°06'18" 65°40'55"	Cassiterite in stockwork of qtz veins gneiss zones in Devonian adamellite. Other metallic mnrls include dis py, po, sph, cp, rare wolframite and bismuthinite. Deposit covers an area 140m x 500m.	1978: till sampling, boulder tracing, geochem. 1979: 8,220 m dd, discovery. 1980: dd. 1980-81: 1,120 m of decline and drifts, 45 m raising; bulk sampling.	38,000,000 mt at 0.2% Sn to 100 m (0.1% Sn cut-off) 1980 (NM 05/03/81)	Tin indications traced over a length of 7 km. U/g development produced about 25,000 mt for sampling.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.S.-33	BROOKFIELD (LIBBY) Marimac ML (in 1965) 21 A/7 44°25' 64°55'	Gold in qtz veins in an anticline of Cambrian Goldenville Fm. Qtz veins about 10" to 2.3' wide.	1885: discovery 1886-1906: mng the Libby vein. 1888-1892: mng East Mine vein and Nelson lead. 1900-05: mng in East Mine vein. 1932-36: operations on the King Fissure. 1964: dd, mag survey.	N/A Au	A steeply dipping vein system containing small amounts of gold is indicated in the East Mine.
N.S.-34	LOWER MINE (CAIN) Marpic Expls L (in 1960) 21 A/16 44°50.9' 64°27.0'	Mn oxides mainly pyrolusite in a vein few inches to 6' in a fault in porphytitic biotite granite. Cain vein 3,500', No. 2 vein 450'. Zones about 200' deep and capped by about 20' ochre.	1891-93: discovery and dev. 1894-1903: intermittent mng. 1916: ore recovered from dump. 1919-21: operations. 1930: one shaft dewatered, a small mill was erected. 1942: dd. 1957-58: dd, a new shaft to 178'. Original shaft 196' deep with drifts at 45'; 95'; 165'. 1965,68: IP, gravity, geochem surveys.	poss: 36,000 manganese material (NS AR 1945, p 153)	
N.S.-35	MILLET BROOK Kidd Creek ML 21 A/16 44°52'10" 64°16'40"	Secondary uranium mnrls near surface and pitchblende at depth in Devonian granite.	1976: discovery, airborne radiometric survey. 1978: scinet and radon gas surveys, geochem, pitting. 1981-82: dd, 139 holes, 11,342 metres.	1,000,000 lbs contained U_3O_8 (in 3 zones) c 1981 (D Pollock, presentation at NS Mining Soc, June 25, 1981)	
N.S.-36	UPPER MINE (DEAN & CHAPTER) Edgehill ML (in 1968) 21 A/16 44°52.2' 64°26.2'	Mn oxides mainly pyrolusite in a vein about 1' thick in a fault in porphyritic biotite granite. Mn zone traced for 250', capped by about 20' ochre and traced to a depth of about 200'.	1907: discovery. 1910-11: u/g dev, mill constructed. 1915-21: intermittent prod. 1930-34: concentrating plant built to treat material on dumps. 1935-36: new shaft, u/g dev 1940-42: u/g mng and dev, dd. No. 1 shaft 230'.	poss: 5,000 manganese material 1942 (NS AR 1945, p 152)	
N.S.-37	LITTLE RIVER DEPOSITS (WIGHTMAN) Mrs Wightman (in 1952) 21 B/8 44°26' 66°10'	A series of lakes and swamps are underlain by diatomite. There is 1' to 8' grey diatomite underlain by variable amounts of diatomaceous ooze up to 20' or more in thickness.	1928: calcining plant was erected. 1929-36: operations. 1938-43: operations. 1953, 54, 55: small shipments of calcined material.	300,000-400,000 dtm, grade unstated 1927 (NMI est)	
N.S.-38	WALTON (MAGNET COVE) Dresser Mnrls leased from The Barex Trust 21 H/1 45°12'20" 64°02'30"	Lens shaped pipe-like mass of barite in central part of a dragfold in probable Pembroke Fm limestone of the Mississippian Windsor Gp. Deposit has a	1940: barite discovery, dd. 1941-58: 100 tpd mill, o/p and u/g mng of barite. 1957: discovery of massive sulphide deposit beneath	N/A Ba	Since 1971 prod was salvage of old stopes from 850' level to 350' level. Mine was scheduled to shut down

		500' strike length, 80' width and 1,000' down dip length. An irregular-lens of Pb-Zn-Ag sulfides is below the barite deposit from 250' below surface to 800' depth. Sulphides make up 25% of deposit and incl gal, marcasite, py, chalcocite, sph, cp, tetrahedrite, argentite and ruby silvers.	barite deposit. 1959: all u/g mng started. 1961: 125 tpd mill for sulphide processing, Pb-Cu-Zn-Ag prod commenced. 1968: shaft 1,715', 12 levels, 1,000 tpd barite mill built, u/g dev while plant shut-down. 1970: mine flooded, prod from surface stockpiles. 1971-78: water level maintained at 1,000' depth, prod ceased 1978.		later in 1978, but a major water break-in caused operations to cease February 15, 1978.
	NEW BRUNSWICK				
N.B.-1	NANTUCKET ISLAND Great Horn Mng Synd Inc 21 B/10 44°42' 66°43'20"	At least three bands of fairly pure qtzite are present on Nantucket Island. These bands, the widest of which is nearly 1,000', are part of the qtzose sedimentary rocks of the Green Head Group of Precambrian age.	1974: sampling. 1975: shallow dd by Union Carbide.	800,000 at 98.22% SiO_2, 0.67% Al_2O_3, 0.20% Fe_2O_3, 0.31% FeO_3 1974 or 2,250,000 at 98% SiO_2 to 20' depth NB AR 1974-75, p 105, 148)	The deposit reportedly meets the requirements for the manufacture of ferrosilicon.
N.B.-2	WHITE HEAD ISLAND Great Horn Mng Synd Inc 21 B/10 44°37'30" 66°43'52"	Clean white qtzite of the Green Head Gp of Precambrian age occurs at White Head on the west side of White Head Island.	1974: sampling. 1975: shallow dd by Union Carbide.	850,000 at 98% SiO_2 to 15'-30' depth 1974 (NB AR 1974-75, p 106)	
N.B.-3	BURCHILL ROAD 21 G/1 45°11' 66°12.5'	The favourable qtzite bed is 200'-500' thick and extends on strike for 1 mile.	1968-75: mapping, sampling, beneficiation tests.	prob: 10,000,000 at 91.4% SiO_2, 3.2% Al_2O_3, 1.0% Fe_2O_3 c 1975 (NB OFR 80-4, p 95, 1980)	Material can be significantly upgraded by acid washing and magnetic separation. Prospect was originally staked by Messrs. W. Walton and M. Gordon and later expropriated. Ownership in dispute.
N.B.-4	ST. STEPHEN Atlantic Nickel ML 21 G/3 45°13'22" 67°18'09"	Massive and disseminated po, veinlets and blebs cp, minor pn in a gabbro mass near contact with qtzites and argillites of Dennis Fm. Generally, nickel is an isomorphous replacement in po.	1880: prospecting. 1947-48; 1953: geoph, dd. 1958: dd. 1959-60: 288' shaft on Rogers Zone, 2 levels, u/g drifting, crosscutting, dd. 1971-74: dd, ground geoph and metallurgical tests by Boliden.	(i) Rodgers Farm: 380,000 proven at 1.05% Ni, 0.46% Cu; 84,000 ind at 0.61% Ni, 0.34% Cu; 153,000 inf at 1.05% Ni, 0.46% Cu 1969 (NB OFR 80-4, p 86, 1980) (ii) Hall-Carroll: 400,000 poss at 0.94% Ni, 0.53% Cu 1969 (Atlantic Nickel ML 1969 prospectus) (iii) C-Zone: 300,000 at 0.99% Ni, 0.36% Cu 1971 (NB OFR 77-2, 1977)	Conventional ore treatment recovers only 60% Ni from St. Stephen ores. Suitable hydrometallurgical process must be worked out. Boliden Can L owns 68.8% of Atlantic Nickel ML.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.B.-5	EVANDALE Dome Expl (Can) L 21 G/9 45°35.5' 66°06'	Cu, Mo sulphs dis and in fractures in a 8,000' x 1,000' zone in Devonian granitic rocks.	1967: discovery by stream sediment sampling; subsequently limited soil geochem, geoph and dd by Riocanex and others.	N/A Large low-grade Cu-Mo (NB OFR 80-4, p 83, 1980)	Extensive work is required to permit tonnage-grade estimation.
N.B.-6	LAKE GEORGE Cons Durham Ms & Res L 21 G/14 45°51' 67°02'	Stibnite dissem and in solid bands in qtz veins cutting Silurian slates and qtzites.	1979: geoph. 1980: dd. 1981: mining of Hibbard zone ended in March (exhausted).	853,175 at 4.15% Sb (1.5% cut-off) or 604,485 at 5.17% Sb (2% cut-off) 1981 (Cons Durham Ms & Res L, 1981 AR)	New zone is located 1 mi NW of mine shaft, deepening of which has been deferred pending improvement in the price of Sb. A promising new W-Mo zone is being investigated nearby on the property.
N.B.-7	WEST BEACH-CAPE SPENCER Gordex Mnrls L 21 H/4 45°14'35" 65°49'53"	Three main vein-type qtz occurrences in the West Beach Fm of Carboniferous age. Two are on Cape Spencer and one on West Beach.	1938: reported by Alcock. 1974: sampling and evaluation. 1975: 16 shallow ddh on West Beach. 1977: dd and extensive sampling by Ahlstrom Can L. 1981-82: bulk sampling and testing.	West Beach: minimum 200,000 at 99.57% SiO_2, 0.024% Al_2O_3, 0.014% Fe_2O_3 1974 (NB AR 1974-75, p 148)	Work in 1977 showed wide variations in grade and thickness of the veins. Material is generally unsuitable for glassmaking, except brown glass; suitable for sandblast and moulding sand.
N.B.-8	TEAHAN Kidd Creek ML 21 H/10 45°42'50" 64°59'20"	Mineralized zone extends over 1,000' in a local flexure in schist. Py, cp, tennantite, sph and gal occur in a gangue of qtz, carbonate, alunite and barite.	1883-1887: shaft sunk, smelter erected, 2 tons Cu matte shipped. 1927-28: trenching, sampling, dd. 1935: two small shafts sunk. 1953: geoph and geochem surveys, 10,930' dd. 1967: geoph and geochem, 1,000' dd. 1969-71: EM, IP, geochem, dd.	poss: 135,000 at 0.46% Cu, 1.46% Zn, 0.87 oz/t Ag 1968 (F Scott 20/09/68, rept for Mija ML)	Resource estimate based on 1953 drilling results. Possibility of larger low-grade tonnage.
N.B.-9	ANNIDALE E C Lockhart 21 H/13 45°47' 65°34'	Cp in a narrow pyritic shear zone in mafic tuffs.	c1900: discovery. 1902-22: several pits and shallow shafts; shipped two carloads of high-grade c1920. 1951-55, 69: 6,800' dd.	dd-ind: c100,000 at 2-7% Cu c 1955 (NB OFR 80-4, p 82)	Additional dd is required to outline the deposit limits.
N.B.-10	GOSHEN A W Lockhart 21 H/14 45°46.5' 65°10'	Malachite and chalcocite dissem in Pennsylvanian conglomerates.	1925: discovery; intermittent work since. 1955-56: trenching and sampling. 1978: soil geochem and rad surveys.	25,000 at 2.35% Cu 1956 ? (NB OFR 80-4, p 84)	The zone is fully delineated by trenching and dd. Can be mined open-cast.

N.B.-11	DAWSON SETTLEMENT 21 H/15 45°56'30" 64°44'50"	Three bog deposits of manganese are located below the orifices of a series of mineral springs.	1887-1930: shipped intermittently c. 3,300 tons (wet basis).	42,690 at 6.97% Mn, 4.77% Fe in bog c 1920 (GSC EG 12, p 75, 1932)	
N.B.-12	DORCHESTER BARITE Dorbeck Syndicate (in 1972) 21 H/15 45°56'30" 64°31'45"	Deposits of barite-celestite occur as replacements in limestone breccia and beds of the Windsor Group of Mississippian age. The mineralized zone is 300' wide and about 4,000' long.	c1970: discovery, stripping, gravity survey.	1,000,000 at up to 85% $BaSO_4$ to 150' 1971 (CMJ, March 1971)	As inferred from exposures and a gravity survey.
N.B.-13	HILLSBOROUGH CGC Inc. 21 H/15 45°54' 64°41'	Gypsum and anhydrite of the Windsor series occurs in a shallow basin of c 14 sq mi. Largest known deposits in N.B.	pre-1847-1980: intermittent prod from several quarries.	Resources sufficient for 100 yrs at 40-50,000/an prod rate 1979 (NB OFR 80-4, p 97)	CGC Inc. which has been quarrying since 1930, closed operations at the end of 1980 because of poor market conditions and antiquated state of plant.
N.B.-14	DORCHESTER Siscoe Mtls of Ont L 21 H/16 45°55.7' 64°28.6'	Lenticular masses of chalcocite and malachite in Pennsylvanian grit and conglomerate. Zone 1 km by 2 km. Uranium mineralization is apparently associated with that of copper.	c1870: discovery. 1898-1917: intermittent work, several shafts, 2 adits, 2 mi. u/g workings, mill, minor prod. 1951-52: sampling of u/g 1978: dd.	poss: 2-3,000,000 at 2% Cu 1974 (NB OFR 80-4, p 83)	Dd by Gulf in 1978 investigated a 1,200 m x 6 m zone to 350 m, obtaining an average of less than 1% Cu. Further work could delineate a large low-grade Cu-U deposit.
N.B.-15	CANAAN RIVER 21 I/3 46°14'24" 65°09'10"	The deposits are made up of 5 bogs which lie below the orifices of a series of mineral springs. Manganese dioxide is deposited on top of an original, sand, gravel or clay surface. The deposits are fan shaped and pinch out laterally at their lowest and richest parts.	pre-1932: sampling.	20,290 at 5.01% Mn, 1.31% Fe in bog c 1930 (GSC EG 12, p 83, 1932)	Manganese is considered easily attainable by stripping.
N.B.-16	GRAINFIELD 21 I/13 46°48'50" 65°52'35"	Seven bogs occur near the Renous River. Four are on the south side of the river and three are on the north side.	1940: survey and sampling by W.J. Wright.	16,886 at 9.75% Mn in bog c 1941 (NB, Sidwell, p 139, 142, 1952)	
N.B.-17	WOODSTOCK Minuvar L 21 J/4 46°11'43" 67°38'21"	Iron and manganese oxides occur in lenticular shaped masses, in Silurian strata of grey-green, green and red slates. Four deposits have been outlined.	1836: discovery. 1843-84: c 70,000 mined and smelted for iron. 1956-62: small tonnages mined, milled and shipped for metallurgical tests. 1976: geol and geochem investigations. 1978: mag and VLF surveys.	194,000,000 at 9% Mn in 6 deposits 1957 or proven: 3,000,000 lt contained and extractable Mn metal 1971 (NB OFR 80-4, p. 81)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.B.-18	BURNT HILL Burnt Hill Tungsten & Mtlrgical L (in 1965) 21 J/10 46°34'25" 66°49'10"	Wolframite, molybdenite and cassiterite in greisenized granite and in fissure veins parallel to joints in the granite and cutting across sedimentary rocks.	1910: tungsten identified. 1912-17: surface and limited u/g dev. 1916-18: 15 t WO_3 conc. shipped. 1941-42: trenching, ore dressing tests. 1953-54: 3,646 lateral advance in adit, 150 tpd mill erected. 1955-57: more than 40 t WO_3 conc. shipped. 1956-57, 63-64: dd. 1968-70: 203' shaft, lateral work. 1978-80: u/g expl, bulk sampling, metallurgical testing.	1,500,000 at 0.75-1% WO_3 1964 (NM 27/08/64)	Recent work done under agreement by Miramichi Lmbr C (L).
N.B.-19	CHESTER Chester ML 21 O/1 47°05'54" 66°14'50"	Streaks and lenses of disseminated and massive sulphides within a zone of qtz-chlorite-sericite schist about 300' thick between qtzite beds. Principle sulphides are gal, sph, cp, py, and po.	1955: airborne EM, staking, surface expl, dd. 1959: geoph expl. 1963-65: option to Newmont. 1966-70: optioned and then bought by Sullivan Mng Gp L, extensive dd. 1974-75: decline driven 1,200', water treatment plant const.	(i) Open pit: prob: 1,600,000 at 2.12% Zn, 0.83% Pb, 0.63% Cu and 3,300,000 at 0.82% Cu (ii) Underground: poss: 3,800,000 at 1.58% Cu and 9,200,000 at 0.44% Cu 1969 (NB OFR 80-4, p 43)	Property approx 40 mi SW of Bathurst. Company controlled by Sullivan Mng Gp. Awaits improved Cu prices.
N.B.-20	CANOE LANDING LAKE Clearwater ML 21 O/8 47°27'05" 66°06'15"	Po, py, sph, gal, and cp occurring at contact of argillaceous sediments with gabbroic intrusives.	1950-67: extensive dd. 1981-82: dd.	dd-ind: 6,000,000 at 0.5% Cu, 0.5% Pb, 1.5% Zn, 0.04 oz/t Au, 1.5 oz/t Ag to 800' 1967 (CMH 1978-79, p 70)	Property 25 mi SW of Bathurst. First worked by Conzinc Canada and under option to Keevil Mng Gp L in 1967. Under option by Brunswick Mng & Smg in 1981.
N.B.-21	MALISEET MTN. 21 O/8 47°16'30" 66°23'00"	Disseminated to massive Cu-Ni sulphides occur in irregular pods and lenses near the margin of the Goodwin Lake intrusion, a dyke-like body of basic to ultrabasic composition.	1950's: dd by Noranda ML. 1967-68: dd by Clearwater. 1972: metallurgical tests.	dd-ind: 16,000,000 at 0.30% Ni, 0.31% Cu, plus values Bi, Co, Ag 1971 (CMH 1972-73, p 80)	More realistic figure might be c 1,000,000 at 1% Ni-Cu. Ground was open in early 1983.
N.B.-22	HALF MILE LAKE 21 O/8 47°18'15" 66°19'30"	Stratabound massive py, gal, sph, minor cp, in sediments at contact with qtz porphyry and andesite, and a zone of disseminated cp-py overlying the massive zone and separated from it by 70' of chlorite schist.			

	a) LITTLE BALD MOUNTAIN Kidd Creek ML		1955-65: intermittent expl. 1974-75: dd. 1975-76: metallurgical tests. 1979-81: dd, feasibility study.	5,200,000 at 6.57% Zn, 2.49% Pb, 0.39% Cu and 1,000,000 at 2.00% Cu 1979 (NB OFR 80-4, p 73)	Plans for sinking an exploration shaft in 1976 deferred after disappointing metallurgical tests. Optioned to Billiton Can L in 1979.
	b) BAY COPPER Bay Copper ML (Conwest 80%)	Down-dip extension of above, 1,800' deep.	1955-56: dd. 1974-75: dd. 1976: geochem and geoph surveys. 1977, 79-81: dd, feasibility study.	dd-ind: 13,600,000 (undil) at 0.19% Cu, 2.52% Pb, 7.50% Zn, 0.90 oz/t Ag to 3,300' 1981 (Conwest Expl CL, 1981 AR)	These figures include Kidd Creek's part of the deposit. The deposit is open at depth. Under option by Kidd Creek ML since 1974, reoptioned to Billiton Can L in 1979. Bay Copper receives advance royalty payments since 1979.
	c) SWEET GRASS McDonough Grubstake Syndicate	May be extension of ore zone to the NE, past that that of Bay Copper.	1955-56: dd. 1975-77: dd, mag, IP, geochem.	dd-ind: 650,000 at 6.01% Zn, 0.79% Pb, 0.44% Cu, plus Au-Ag 1956 (NB AR 1975-76, p 153)	Controlled by the Noranda interests. Work planned for 1983.
N.B.-23	DEVIL'S ELBOW Brunswick Mng & Smg Corp L 21 O/8 47°26' 66°24.5'	Ordovician volcano-sedimentary complex. Disseminated to massive po with minor cp and py in a chlorite schist.	1956-57: mapping, geoph, geochem, dd. 1971-73: surf work, dd. 1978: geochem, IP, EM surveys. 1982: minor dd.	dd-ind: 350,000 at 1.2% Cu 1965 (Devil's Elbow ML 1965 prospectus) and 170,000 at 0.7% Cu 1972 (L R Fyffe, Geology of Forty-Four Mile Brook)	Property 60 mi W of Bathurst. Tonnage estimates preliminary; requires more exploration.
N.B.-24	NEPISIGUIT "A" and "B" Cominco L 21 O/8 47°22'48" 66°01'50" 47°22'32" 66°01'40"	The two deposits are faulted segments of the same mineralized lens, consisting 70-80% py, and 10% or less combined sph, cp, po, and gal in a gangue of qtz and carbonate. Host rock and footwall is black argillite, hanging wall is mainly rhyolite.	1956-present: discovery, "investigation".	N/A	Property SW of Bathurst.
N.B.-25	TAYLOR BROOK J Duffy 21 O/8 47°21' 66°00.7'	Stratabound massive py with sph and gal in chloritic to siliceous tuff or volcanogenic sediments. Deposit is at least 300 m long by 100 m deep.	1977: discovery; mag, EM, soil geochem survey, 1 ddh. 1978: 5 ddh by South Bathurst Joint Venture.	poss: 250,000 at unstated, low grade, Zn-Pb	One of the best intersections was 6.5 m at 1.6% Zn, 0.8% Pb, 0.01% Cu, 0.04 oz/t Ag.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.B.-26	TOMOGONOPS (HEATH STEELE) Heath Steele ML 21 O/8 47°18.4' 66°07.8'	Stratabound folded sulph (py with sph, gal, cp) lenses in crystal tuff, lapilli breccia and agglomerate.	1972-76: discovery, dd.	(i) North Boundary: 500,000 at 3.70% Pb, 8.30% Zn c 1972 (MPS MR 189, p 22, 1981) (ii) N-2 (Stratmat West): 600,000 at 0.5% Cu, 3.6% Pb, 9.6% Zn, 2.3 oz/t Ag 1976 (NB OFR 80-4, p. 78)	Located 2 mi NW of Heath Steele mine near the property boundary with Cominco's Tomogonops (see N.B.-27). N-2 zone is the part of Stratmat West zone extending into Heath Steele ground at depth.
N.B.-27	TOMOGONOPS (STRATMAT) Cominco L 21 O/8 47°19.2' 66°06.5' (Main Zone)	Stratabound folded sulph (py, sph, gal, cp) lenses in crystal tuff, lapilli breccia and agglomerate.	1956: discovery of Main zone. 1956-57: geoph, dd. 1961-62, 72: dd, West zone discovered in 1961, Stringer and Central zone in 1972.	(i) Main zone: 70,000 at 0.03% Cu, 1.8% Pb, 5.2% Zn, 1.9 oz/t Ag and 500,000 at 1.9% Cu (ii) Central zone: 200,000+ at 0.5% Cu, 4.3% Pb, 8.0% Zn (iii) Stringer zone: 200,000+ at 2.0% Cu (iv) West zone: a) Main: 1,600,000 at 2.9% Pb, 7.5% Zn, 0.9 oz/t Ag; b) East: 400,000 at 0.7% Cu, 2.6% Pb, 12.2% Zn, 0.7 oz/t Ag 1976 (NB OFR 80-4, p 78)	Deposits located 2 mi NW of Heath Steele mine. Will likely be eventually mined, and milled at Heath Steele where mineral dressing tests were successful.
N.B.-28	CARIBOU Caribou-Chaleur Bay ML 21 O/9 47°33'41" 66°17'50"	Typical Bathurst type volcanogenic sulphide deposit. Large synclinal structure plunging steeply NE. Explored to 1,200' depth.	1955-60: dd, discovery, adit. 1965-66: drifting, raises, surface and u/g dd. 1969: pit dev. 1970-71, 73-74: 361,000 milled. 1974: u/g dev on Pb-Zn zone, metallurgical research. 1979: feasibility study. 1980-81: dd, metallurgical work, u/g testing. 1982: feasibility study; heap leaching for gold tests on gossan.	dd-ind: 49,400,000 at 0.47% Cu, 1.7% Pb, 4.48% Zn, 1.7 oz/t Ag, 0.04 oz/t Au 1977 (MPS MR 191, p 24, 1982)	Extractive metallurgy of primary ore is difficult; tests continuing. Deposit is finer grained than most Bathurst ore. Environmental problems associated with tailings disposal and dam leakage. To decide in 1983 whether to resume prod.
N.B.-29	ARMSTRONG "A" and "B" Arrowhead Mtls L 21 O/9 47°36'17" 66°02'35" 47°36'05" 66°02'41"	Gal, sph, cp, asp, mag, and py in chlorite-sericite schists of the Middle Ordovician Tetagouche Gp.	1956-present: discovery, "investigations".	N/A	Property SW of Bathurst.
N.B.-30	MURRAY BROOK Kennco Expls (Can) L 21 O/9 47°31'31" 66°26'04"	Sulphide body 1,400' long by 600' wide in chloritic schists of Ordovician age. Mineralization consists of massive py with gal, sph, and minor cp.	1956-57: discovery, dd. 1974-75: fill-in dd, geoph and geol surveys.	23,000,000 at 1.95% Zn, 0.86% Pb, 0.44% Cu, 0.91 oz/t Ag, 0.01 oz/t Au, 34% S, 34% Fe 1957 (NB OFR 80-4, p 76)	Figures not available for secondary enriched copper zone.

N.B.-31	ORVAN BROOK Little Long Lac GML 21 O/9 47°37'42" 66°08'10"	Massive sulphide zone averaging less than 30" thick and a length of 8,000' lies along the contact between Ordovician Tetagouche Gp crystal tuff and greenstone.	1860: float discovered on Armstrong Brook. 1937-38: source of float located, trenched and drilled. 1945: geoph, 1,297' dd. 1950-53: deep dd. 1963: dd. 1975: soil geochem.	dd-ind: 150,000 at 7.13% Zn, 3.27% Pb, 0.20% Cu, 0.017 oz/t Au, 2.52 oz/t Ag across 6.5' 1953 (A L McAllister, Mineral Occurrences in NB 05/54) or 200,000 at 6.3% Zn, 3.25% Pb, 1.0 oz/t Ag to 500' 1968 (GSC Mem 371, p 91, 1974)	
N.B.-32	ROCKY TURN ArrowHead Mtls L 21 O/9 47°38'00" 66°04'15"	sph, gal, and cp bodies in schist and porphyry.	1956: discovery.	N/A	Property SW of Bathurst.
N.B.-33	LEGACY (McKENZIE GULCH) Copperfields Mng Corp 21 O/10 47°42'40" 66°58	Copper sulphide occurs in several zones in highly silicified limestone of Ordovician or Silurian age.	1968: copper-bearing float discovered. 1970-71: 23,117' dd. 1972: 4 ddhs. 1976-78: dd.	dd-ind: 490,000 at 1.7% Cu, 0.3 oz/t Ag to 750' 1970 (NM 28/09/78)	Drilling in 1976-78 by Silver Leader ML, under option, has extended the mineralization to 1,670'.
N.B.-34	RESTIGOUCHE (THIRD PORTAGE LAKE) Placer Dev L 21 O/10 47°30.2' 66°37'	Py, sph, gal, cp, and tennatite in a cone-shaped deposit plunging 15° in fragmental volcanics.	1955-56: soil geochem, geoph, dd. 1965: dd, metallurgical tests. 1972: dd, metallurgical tests, IP and geochem surveys. 1974-75: dd and metallurgical tests by Placer. 1980-82: dd.	2,388,977 at 6.55% Zn, 5.13% Pb, 3.40 oz/t Ag, minor Cu, Au 1981 (Gowganda Res Inc., 1981 AR)	Bathurst-type fine-grained mineralogy creates metallurgical problems. Gowganda Res Inc has 24% net profits royalty interest.
N.B.-35	BENJAMIN RIVER Umex Inc (60%) & Soquem (40%) (in 1973) 21 O/16 47°49.0' 66°19.9'	Py, po, bornite, tetrahedrite, sph, moly and scheelite in fractured and altered Devonian granodiorite porphyry.	1968-73: geoph, geochem, dd.	23,000,000 at 0.18% Cu, 0.01% Mo c 1970 (CIM Bull, V 75, No 842, p 88; June 1982)	To be investigated by dd by Petro-Can Products Inc in 1983.
N.B.-36	CAPTAIN MINES Brunswick Mng & Smg Corp L 21 P/5 47°17.0' 65°52.6'	Captain zone consists of py, cp, gal, sph, Au, tellurides, bismuthinite and $Cu_3S_4SnO_2$ in chloritic tuff probably structurally controlled by a fold in the Tetagouche Gp. Early reports of Co in the ore are erroneous.	1954-66: geoph, dd. 1976-79: geol, geochem and geoph surveys, dd; North zone discovered in 1978 (Captain in 1956). 1980: geoph, dd.	(i) Captain: dd-ind: 802,598 at 1.15% Cu, 0.032 oz/t Ag 1957 (NM 22/08/57) or dd-ind: 343,000 at 1.99% Cu, 0.28 oz/t Ag, 0.017 oz/t Au, after dilution 1965 (Captain ML, 1965 AR) (ii) North zone: 200,000 at 8.38% Zn, 3.44% Pb, 3.48 oz/t Ag 1978 (VSE SMF 22-81, Sabina Industries L, 1981)	Ground was part of South Bathurst Joint Venture claims, which were allowed to come open inadvertently in 1982 and were restaked by Brunswick M&S.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.B.-37	DRUMMOND IRON MINE (SOUTH LENS) Brunswick Mng & Smg Corp L 21 P/5 47°23'50" 65°49'25"	A pyrite lens occurs along the footwall of iron formation of the Middle Ordovician Tetagouche Gp.	1952: 11 ddhs along length of 1,000' by M J Boylen and associates.	dd-ind: 1,000,000 at 1.86% Pb, 2.93% Zn, 1.0 oz/t Ag 1952 (GSC Paper 63-24, 1952)	
N.B.-38	FLAT LANDING BROOK Sabina Industries L 21 P/5 47°22.9' 65°52.6'	Stratabound volcanogenic sulphs (py with sph, gal, cp) in a sequence of interbedded felsic volcanic and sedimentary rocks that lie between what appear to be two rhyolite 'domes'.	1975: discovery. 1975-77: geoph work, dd, trenching. 1981-82: dd.	(i) North zone: 900,000 prob at 0.04% Cu, 1.71% Pb, 6.94% Zn, 0.89 oz/t Ag (ii) South zone: 500,000 prob at 0.02% Cu, 0.53% Pb, 3.23% Zn, 0.31 oz/t Ag 1976 or North & South zones: 1,930,000 at 0.94% Pb, 4.9% Zn, 0.57 oz/t Ag 1978 (NB OFR 80-4, p. 72)	Optioned to Brunswick Mng & Smg in 1980. More dd planned for 1983.
N.B.-39	MIDDLE LANDING (KEY ANACON) Key Anacon ML 21 P/5 47°26'12" 65°42'20"	Massive sulphide replacement lens in zone 1,200' long by 200' wide in graphite-chlorite schist. Two mineral assemblages; (1) py, gal, cp; (2) po-sph with minor py, gal, cp.	1864: discovery. 1946-47: geoph, dd. 1951-57: airborne mag and ground geoph, dd, expl shaft to 1,500' with 9 levels. 1961: dd. 1964-66: u/g dev and dd. 1970: feasibility study. 1973-78: geoph and geochem surveys, minor dd. 1981: dd.	proven: 939,000 at 2.35% Pb, 5.98% Zn, 0.42% Cu, 2.51 oz/t Ag plus dd-ind: 1,011,000 at 2.03% Pb, 5.78% Zn, 0.07% Cu, 2.12 oz/t Ag 1969 (Key Anacon ML, 1969 AR) or 1,859,000 at 7.43% Zn, 3.03% Pb, 0.2% Cu, 2.67 oz/t Ag (CMH 1980-81, p 141)	Bathurst-type fine-grained sulphides create recovery problems.
N.B.-40	NINEMILE BROOK Sabina Industries L 21 P/5 47°23'25" 65°55'20"	A conformable lens of sulphide mineralization occurs at the contact between meta-rhyolite and meta-sedimentary rocks.	1964: discovery. 1965-67: geoph, dd. 1975: EM, mag and IP surveys, further dd. 1979: 1 ddh.	147,000 at 0.42% Cu 1.23% Pb, 1.07% Zn, 2.65 oz/t Ag 1967 (NB Inv 21 P/5-W(e-1), P-8, 1974)	Deposit is 400' x 150' and was traced to 500' depth. Under option by Brunswick Mng & Smg which can earn 70% interest by 1984.
N.B.-41	PABINEAU RIVER (HEADWAY) C A Willett 21 P/5 47°26.7' 65°55'	A 1,200' long narrow sulphide zone occurs in schist.	1953: property staked. 1954: dd with negative results. 1957: trenching. 1958: 11 ddhs. 1966-67: dd, IP survey, ore dressing tests. 1975: mag, EM, trenching and dd by Umex.	dd-ind: 290,000 at 1.43% Cu, 0.61 oz/t Ag, 8.26% Pb-Zn (Zn:Pb 3:1) to 600' 1966 (NM 29/09/66)	The zone is small and narrow and appears to have been conclusively delimited.

N.B.-42	BERESFORD Northeast Expl C 21 P/12 47°41'50" 65°51'20"	Deposit consists of 3 or more irregular mineralized lenses in a band of skarn associated with the Nicholas Denys granitic stock.	1952: dd 15,000' by Noranda. 1956, 1957, 1962: dd. 1970-72: EM, mag, geochem, dd.	dd-ind: 200,000 at 2% Cu 1952 (GSC Paper 67-49, 1969) or 558,883 at 1.8% Cu 1970 (F P Tagliamonte, rept for Superior Copper ML, 31/07/72)	
N.B.-43	MILLSTREAM IRON DEPOSIT Millstream ML 21 P/12 47°41'05" 65°53'42"	Sulphide mnrls occur in small irregular masses, veinlets, and disseminations cutting two magnetite-rich skarn lenses. The outlined Cu-Ag zone is 500' long and averages 8' in width.	1893: investigated for iron by inclined adit and open cuts. 1909: several holes drilled. 1937, 1949, 1953: dd. 1968-70: dd by Sullivan.	dd-ind: 200,000-300,000 at 1.2-1.5% Cu, 0.7 oz/t Ag, 0.02-0.04% Bi to 500' 1970 (Sullivan Mng Gp L, 28/02/73 written commun)	Slightly lower Cu-Ag tenors persist from 500' to 1,000'.
N.B.-44	NICHOLAS DENYS NO. 1 New Brunswick Molybdenum ML (in 1967) 21 P/12 47°43'10" 65°54'04"	Molybdenite occurs in qtz veinlets, along fractures, and as disseminations in qtz monzonite-granodiorite of Devonian age.	1965: 3 holes drilled. 1967: 5 holes drilled.	500,000 at 0.33% MoS_2 to 300' 1967 (NB Inv 21 P/12-W(e-5), P-4 Mo, 1974)	Tonnage inferred from dimensions of 3,000' x 6.2' to 300'.
N.B.-45	QUEBEC STURGEON RIVER (ROCKY BROOK) Millstream ML 21 P/12 47°40'20" 65°54'47"	Several py-po-sph-gal deposits occurring along a fault zone within rocks of the Tetagouche Gp. Sulphides characteristically occur as a broad zone of sparsely disseminated and thin seams of po and py with minor sph and gal with local vein concentration of sph and gal constituting the ore shoots.	Pre-1890: minor exploration, pitting, trenching. 1937: Cominco option - surface work, some dd. 1951-53: surface work. 1955-57: 552' shaft on "shaft" deposit, 2 levels, u/g drifting. 1967-69: geoph surveys; dd. 1978-79: VLF, mag, soil geochem surveys. 1982: dd.	(i) Shaft deposit: 82,500 prob at 3.63 oz/t Ag, 1.17% Pb, 4.58% Zn to 500'; 262,500 poss at 3.26 oz/t Ag, 2.28% Pb, 3.30% Zn. (ii) Hachey deposit: 42,000 poss at 7.9 oz/t Ag, 1.78% Pb, 2.71% Zn to 200', plus another 105,000 to 500', grade unstated. (iii) Half Mile deposit: 17,200 at 2.5 oz/t Ag, 4.47% Pb, 3.90% Zn. (iv) Pine Tree deposit: 105,560 at 2.35 oz/t Ag, 2.82% Pb, 3.40% Zn to 130'. 1957 (GSC Paper 67-49, 1969)	Property 12 mi NW of Bathurst in Rocky Brook area. Prospect uneconomic at present. No metallurgy reported. Deposit also contains unstated amounts of molybdenum. Millstream ML is 54.6% owned by Zarina Expls L.
N.B.-46	TETAGOUCHE FALLS Cdn Manganese Mng Corp (in 1964) 21 P/12 47°36.9' 65°49.5'	Deposit consists of a 160' thick bed of red argillite, of the Ordovician Tetagouche Gp, that has been tightly folded and cut into longitudinal fault slices. Mn occurs in the argillite as an invisible component and as visible pyrolusite and manganite veinlets and black oxides and rhodocrosite in concretions.	1842: discovery, 125 t ore shipped. 1859-64: surface and u/g expl, minor shipments. 1946: pits, short adits and shafts. 1953-54: 27,000' dd, geoph surveys.	39,000,000 at 5.5% Mn 1954 (GSC Mem 371, p 97, 1974)	In two parallel bodies suitable for open-pit mining.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
N.B.-47	KEYMET MINE Noranda Expl CL 21 P/13 47°48.4' 65°48.8'	Vein of py, po, sph, cp and gal, in a gangue of chloritized WR, calcite, minor qtz and fluorite, in a fault which cuts across Ordovician seds.	1880: discovery. 1883: shaft sunk, sporadic expl to 1897. 1947, 50: dd. 1952-54: 1,228' shaft, 8 L's. 1954-55: milled 64,681 t. 1981: investigated by Noranda.	developed: 86,400 at 4.73% Pb, 4.32% Zn, 1.40 oz/t Ag, 0.66% Cu across 4.7' 1955 ? (CIM Str Geol, Vol II, 1957)	It is not clear how much, if any, of this tonnage has been mined. Concentrate carried c 0.5% Cd.
	QUEBEC				
QUE-1	MADELEINE ISLANDS Seleine Mines Inc 11 N/4, 5, 12	A series of at least three E-W steep anticlinal ridges of Windsor evaporite (Lower Mississippian) break through overlying Permo-Carboniferous sediments. The deposits contain gypsum and potash as well as common salt.	1970: an exploratory oil well sunk north of the islands struck a salt bed at 2,743 m. 1971: 2 ddh and gravity survey. 1973-75: Soquem discovers 7 salt deposits by dd. 1977-79: shaft sunk 538' on Dauphin deposit and u/g dd from 2 levels; feasibility studies.		Dauphin deposit went into production in September 1982, initially at the rate of 1.5 million mtpy. For use as road salting material half of which to be used in Que. and half in the U.S.
	a) Ile d'Entrée 47°16.3' 61°41.9'			312,000,000 mt at 251 m depth.	The grade of these deposits exceeds 90% NaCl. In addition to the salt tonnages listed, Soquem has an est. 94,800 mt in 4 separate gypsum deposits that average 32.6% Ca and 45.9% SO_3 and the Havre-Aubert deposit contains 1,115,200 mt at 11.8% K_2O. (Que DPV-707, 1979).
	b) Havre-Aubert 47°13.1' 61°51.0'			301,000,000 mt at 102 m.	
	c) Bois-Brulé 47°14.0' 61°55.8'			143,000,000 mt at 60 m.	
	d) Anse-à-la Cabane 47°23.7' 61°58.0'			14,000,000 mt at 98 m.	
	e) Cap-aux-Meules 47°23.7' 61°51.0'			27,000,000 mt at 310 m.	
	f) Dauphin 47°37.0' 61°33.5'		1980-82: preprod work including 2 shafts.	460,000,000 mt at 29 m.	Production started 1982.
	g) Grosse-Ile 47°37.0' 61°30.6'			727,000,000 mt at 265 m. 1975 (Soquem, 1975/76 AR)	
QUE-2	MADELEINE ISLANDS SILICA Magdalen Silica Inc 11 N/4, 5, 11 47°36' 61°22'(North) 47°15.5' 61°45' (South)	Two areas of marine beach sand offshore from Madeleine Is. The two areas are up to 10 sq mi each and nearly 30 mi apart. The deposits are fairly uniform, averaging 0.2% Fe_2O_3 and 0.8-1.0% Al_2O_3.	1962 and since: drill sampling, beneficiation tests.	100 million mt proven at 88% qtz, 11% feldspar and c 1,000 million mt ind high grade silica (Paper 56, CIM Ann Mtg, 1982)	Tests at CANMET showed suitability of products for foundry and abrasive uses. A prospective 600,000 mt/y operation.

QUE-3	STORER-CAP AUX MEULES Copper Rand Chibougamau ML (in 1958) 11 N/5 47°22.8' 61°52.9'	Pyrolusite, manganite and psilomelane occur as nodules, irregular masses and lenses in Mississippian limestone.	c 1900: small scale extraction and shipments. 1940: prospect shafts sunk with some u/g lateral work, bulk sample testing. 1947: limited mining by open cut and stockpiling, dd. 1948: resistivity, mag and SP surveys, shaft sunk 40'.	27,333 lt dd-ind crude Mn ore, equivalent to 3,650 lt concentrate, plus 5,600 lt at 20.5% MnO_2 in stockpile equivalent to 800 lt at 48+% Mn concentrate 1948 (Quebec Manganese ML, 1948 AR)	After the exhaustive 1947-48 investigations it was concluded that the overall grade was too low to support a viable exploitation.
QUE-4	DORAN Lacana Mng Corp (in 1979) 12 L/8 50°21' 62°20'	A series of U deposits occupying mineralized tension fractures. Details NA.	1977-79: mag, rad, E-M and geochem surveys; trenching, sampling.	10,890,000 mt at 0.025% U_3O_8 1979 (Que GM-33443, 1979)	Located 0.8 km west of Pashashibu R., in Costebelle township.
QUE-5	ALLARD LAKE AREA QIT-Fer et Titane Inc 12 L/11,5 50°32.5' 63°24.9' (Grader)	Massive dykes, sills, lenses and irregular bodies of ilmenite-hematite in anorthosite of the Grenville Province.	1941: first discoveries of ilmenite in the area. 1944-46: prospecting, staking, dd. 1947: airborne mag survey. 1950-51: 150,000 tons ilmenite ore shipped from Grader o/p. 1951-present: o/p mng of Main Lac Tio deposit.	(i) Lac Tio NW: 5,080,000 mt at 37.4% Fe, 32.3% TiO_2 (ii) Cliff: 8,839,200 mt at 39.2% Fe, 33.9% TiO_2 (iii) Grader: 7,620,000 mt at 36.9% Fe, 32.0% TiO_2 (iv) Springer: 55,880,600 mt at 36.0% Fe, 31.2% TiO_2 (v) Mills: 66,040,000 mt at 31.5% Fe, 27.3% TiO_2 1979 (Que Inspecteur des Mines 22/06/79)	The same source gives the reserves in the Main Lac Tio orebody at 74,879,200 mt at 38.3% Fe, 33.6% TiO_2.
QUE-6	PUYJALON LAKE Gulf Titanium L (in 1978) 12 L/11 50°33'12" 63°21'30"	Deposit of ilmenite, hematite and apatite, in anorthosite, 7,200' by 1,200'.	1954: surface work, metallurgical tests. 1968: dd. 1972-73: metallurgical and ore dressing tests.	dd-ind: 230,000,000 at 17.9% Fe, 10.8% TiO_2, 3% P_2O_5 to 500' 1968 (CMH 1978-79, p 130)	Low grade.
QUE-7	MOE RIVER Y Coderre (in 1963) 21 E/4 45°14'31" 71°47'09"	Best values in alluvial gold in Moe River occur over a 9,000' stretch south of Compton village. The source of gold are probably qtz veins in Lower Paleozoic sediments.	1908: gravels sampled. 1939-40: test pits in gravel over 9,000' x 650' area.	878,600 yd^3 at 0.0128 oz/yd^3 Au 1940 (Que GM-9285, 1940)	A single spot sampling check by H W McGerrigl (1940) suggested that the grade may be much lower.
QUE-8	ALBERT (CAPELTON) Massawipi Mng CL (in 1970) 21 E/5 45°19.3' 71°54.8'	The original Albert mine had two pipe-shaped massive sulphide orebodies in sericite schist.	1863: discovery. 1866-1907: prod of c 300,000 tons pyritic ore from 4 shafts, the deepest 2,500' on the incline. 1951-52: surface dd.	300,000 at c 3% Cu to 500' 1952 (Ascot Metals Corp, L 1952 AR)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-9	ALDERMAC MOULTON HILL Quebec Ascot Copper Corp L (in 1956) 21 E/5 45°24.5' 71°49.5'	Volcanogenic massive py with sph, cp, gal at felsic-mafic flow contact.	1942: discovery following SP survey, dd. 1943: shaft sinking, u/g dev. 1944-45: prod by Aldermac Copper Corp L. 1949: u/g dev resumed. 1950-53: prod by Ascot Metals Corp L; workings extended down to 10th level.	15,000 at 1.0% Cu when shut 1953 (Que PR 371, 1958)	Total ore milled: 350,000, with recovery of Zn, Cu, Pb, Au, Ag. Mining was costly because of narrow widths and weak HW.
QUE-10	EUSTIS MINE Massawippi Mng CL (in 1972) 21 E/5 45°19.1' 71°55.1'	Four principal pyritic lenses arranged en-échelon in a carrot shaped zone, extending 8,000' down a 45° dip, in volcanics. Probably strata-bound.	1865-1939: mined practically without interruptions to a slope depth of 8,000'. 1951-53: dd. 1963-64: dd. 1972: geoph surveys, dd.	3,500,000 at 35% S, 1% Cu in the mine 1939 (NM 24/05/51) plus 100,000 at 1-1.5% Cu 350' W of mine 1972 (Que MIQ 1972, p 88)	
QUE-11	CLINTON COPPER Clinton Copper ML 21 E/7	Five stratiform pyritic mass to dissemin deposits occur at a felsic-mafic volcanic flow contact, at intervals over 4 mi.	late 1930's: discovery of 'A' deposit. 1953: 2 ddh on 'A'. 1959-62: ground mag, EM, dd. 1966-71: dd. 1973-75: decline driven on 'O' deposit and 115,000 of Cu-Zn-Pb-Au-Ag ore shipped to Cupra mill.		
	'O' 45°25'30" 70°55'35"			158,700 at 2.30% Cu, 1.72% Zn, 0.607 oz/t Ag, 0.34% Pb 1974	Later, 89,589 at 2.60% Cu, 2.42% Zn was mined to Aug 1975. According to R. Lamarche the 'O' deposit was exhausted.
	'A' 45°27'24" 70°54'25"			698,700 at 1.84% Cu, 1.58% Zn, 0.40 oz/t Ag 1973	
	'C' 45°26'41" 70°54'44"			363,000 at 1.68% Cu, 0.60% Zn 1973	
	'E' 45°25'20" 70°55'34"			54,500 at 1.77% Cu, 1.09% Zn 1973	
	'F' 45°24'12" 70°56'08"			280,000 at 2.14% Cu, 1.52% Zn 1973 (Sullivan Mng Gp L, 1973 and 1974 ARs)	
QUE-12	VEILLEUX Baskatong Qtz Inc 21 E/10 45°41.3' 70°37.8'	A qtz lens 210' long and 155' wide in metasediments of the Lower Devonian Frontenac Fm.	1958-65: several thousand tons quarried and sold by Messrs Veilleux and Dupuis.	100,000 mt at 99.6% SiO_2 c 1975 (Que DPV-707, p 21, 1979)	

QUE-13	LINGWICK Soquem 21 E/11 45°39.3' 71°23'	Volcanogenic sulphide deposit at the contact between felsic and mafic volcanics.	1968-70: geochem and geoph surveys, dd.	dd-ind: 350,000 at 6% Zn, 0.6% Cu, 0.5 oz/t Ag 1970 (Soquem, 1970/71 AR)	
QUE-14	ST ADRIEN MOUNTAIN Wolfe Asbestos & Magnesium ML (in 1976) 21 E/13 45°50.2' 71°41.7'	Asbestos fibre of good quality, but short, in an isolated lens of serpentinized peridotite.	1900-30: intermittent o/p excavation, shipments. 1943-49: adit with 2,700' total lateral advances, dd, bulk sampling and testing. 1952-53: 2,200 tpd mill erected, treated 171,000 tons from o/p before bankruptcy stopped operation. 1957-58: additions to mill, test treatment from new o/p, some fibre shipments, then plant removed. 1967-76: small intermittent prod of asb fibres and Mg-rich dust (soil conditioner) from dumps.	23,000,000 at 7% Asb (55% gps 6-9, 30% gp 5) c 1948 (H M Woodroffe, CANMET unpubl rept 4/05/59) or 9,000,000 at 5.1% Asb (NM 18/12/58)	The larger tonnage was contained in 1,800' x 700' to 760'.
QUE-15	SOUTH HAM ANTIMONY Quebec Antimony ML (in 1976) 21 E/13 45°51.0' 71°32.0'	Native antimony with minor stibnite and kermesite in qtz veins in greywacke. Prob hydrothermal origin.	1863-81: sporadic, small scale mng from cuts and 2 shafts. 1886: u/g lateral workings extended. 1951: dd. 1971-72: dd; u/g drifting and sampling.	75,000 at 2% Sb_2O_3 1971 (NM 27/05/71)	
QUE-16	TROYSCO (HAM-NORD) Flintkote ML (in 1973) 21 E/13 45°53.2' 71°42.1'	Deposit consists of 1/16 to 3/16 inch long cross-fibre chrysotile as veinlets in a small isolated body of ultrabasic rocks.	1889: surface work. 1952-53: dd, adit driven, and bulk sample mill-tested. 1955: dd. 1973-74: dd; bulk sample testing.	2,500' x 1,500' to 400' at 5.6% Asb, mainly in 7, 6 and 5 groups 1953 (Que ES-14, p 81, 1973)	Asarco dropped its option after reviewing the results of its work on the property in 1973-74.
QUE-17	CONTINENTAL (MEGANTIC) Continental Asbestos ML (in 1952) 21 E/14 45°59'06" 71°23'32"	Chrysotile asbestos in serpentinized peridotite.	1886-89: small output of crude. 1921-29: 187,000 mined by o/p. 1947: pit dewatered, dd. 1951-52: 82,000 milled.	500,000 at 5% Asb in groups 4, 5, 7 1950 (Que ES-14, p 92, 1973)	Less 82,130 milled in 1951-52.
QUE-18	CUPRA-D'ESTRIE Sullivan Mng Gp L 21 E/14 45°46.4' 71°18.8'	Stratiform volcanogenic massive sulphide deposit, elongated at least 6,000' down 45° dip, 300'-900' horizontal length, avg. 3' thickness. Cupra section of the deposit is above 2,522' depth, d'Estrie section is below.	1960: discovery by dd of EM anomaly. 1962-69: shaft and winze sunk 4,725' with 28 levels. 1965-77: 2,628,822 milled with recovery of Cu, Zn, Ag, Au, Pb, Cd, Bi.	687,000 at 2.75% Cu, 1.48% Zn, 0.47% Pb, 0.015 oz/t Au, 1.10 oz/t Ag 1977 (Sullivan Mng Gp L, 1977 AR)	The mill was dismantled and sold in 1979. Regardless of future metal prices, costs of reopening the mine and worsening ground conditions with depth (most of the resources are below 2350') will deter resumption operation.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-19	GILMONT Gilmont ML (in 1956) 21 E/14 45°57'25" 71°23'56"	Slip and cross fibre chrysotile in serpentinite.	1949-53: dd, mag survey, pits.	dd-ind: 2,400,000 at 8.05% Asb in groups 4, 5, 7 to 300' 1953 (H S Wilson 16/07/56 in Prospectus, Gilmont ML, 1956)	
QUE-20	WINDSOR (AYLMER) Aylmer ML 21 E/14 45°57'33" 71°19'38"	Slip-fibre and cross-fibre chrysotile asbestos veinlets in serpentinized dunite.	1914-16: pit sinking. 1921: small prod. 1922: surface and u/g exploration, dd. 1948-52: dd. 1952-53: mng and test milling. 1963-64: mag survey and dd. 1971: feasibility study.	5,000,000 at 9% or $6.00/t Asb 1964 (Que ES-14, p 95, 1973)	Pilot studies (1953) gave poor results. Feasibility study (1971) results have not been published.
QUE-21	MT. ST-SEBASTIEN (COPPERSTREAM-FRONTENAC) R. Maheu and Abbé Raymond (in 1974) 21 E/15 45°46' 70°55'	Two zones 3,000' apart. South Zone: 950' x 360' area where disseminated moly occurs in qtz and feldspar veins cutting granitic dykes. North Zone: 1,000' x 450' area of sediments cut by qtz veins rich in moly.	1910-20: trenching. 1941: test shipment. 1956: mag survey, dd. 1961: adit driven. 1962-64: u/g sampling, bulk sampling, drilling. 1974: trenching.	South Zone: 701,000 ind at 0.558% MoS_2. or South & North Zones: 2,000,000 inf at 0.50% MoS_2 1963 (SB Bond 02/63, rept to Molybdenum Corp of America	
QUE-22	BEAUCE PLACER Beauce Placer Mng CL 21 L/2 46°13.4' 70°40.2'	Placer gold in a 22,000' stretch of a pre-glacial channel of Gilbert River, a tributary of Chaudière River. Underlain by Cambrian, Ordovician and Devonian rocks.	1823: placer gold reported. 1847-65: sporadic prod. 1865-95: prod 75,000 oz Au. 1910-13: exploration. 1957-61: extensive churn drilling. 1961-65: dredging, minor prod.	pot: 17,000,000 cu.yds. at 22.4¢/yd (Au @ $35/oz) 1959 (Beauce Placer Mng CL, 1959 AR)	Clay from marine strata overlying the placer gravels caused serious recovery problems during dredging operations in 1961-65.
QUE-23	ASBESTOS CORP - "OTHER RESOURCES" Asbestos Corp L 21 L/3 (mainly)			a) proven: 17,920,000 Asb ore b) prob & poss: 244,000,000 Asb 1981 (CMH 1982-83, p 41)	a) in deposits other than King Beaver, British Canadian, Penhale and Asbestos Hill; probably all in Thetford area. b) includes prob and poss categories in King-Beaver, British Canadian, Penhale and Asbestos Hill mines, and any other properties held by the company; probably mostly in Thetford area.

QUE-24	ASBESTOS PRODUCERS Asbestos Producers Corp (in 1955) 21 L/3 46°03'09" 71°19'33"	Chrysotile asbestos in serpentinized peridotite.	1890: staked. 1901: prospecting. 1927: dd. 1946-48: dd, 85' shaft. 1950-51: mag survey, dd. 1954-55: dd.	4,500,000 at 5-6% Asb available by o/p and 8,000,000 available u/g 1955 (Que ES-14, p 91, 1973)	
QUE-25	"C" VIMY RIDGE Asbestos Corp L 21 L/3 46°00'58" 71°24'48"	The southernmost and smallest of Vimy Ridge deposits, with a diameter of 400' and depth of 100'. Possibly an erosion remnant of a large deposit. Cross-fibre chrysotile in serpentinized peridotite.	Unknown. Discovered pre-1954.	300,000 Asb "ore" (MPS NMI est)	The grade of nearby Normandie mine was about 5% fibre, mainly in group 4.
QUE-26	CARIBOU Asbestos Corp L 21 L/3 46°01'00" 71°20'25"	Chromite lenses, both massive and disseminated, in dunite, occur in a zone 1,200' long and up to 170' wide.	1894-1909: small o/p prod. 1916-20: prod from o/p and two levels u/g. 1937: dd. 1942: dd.	40,730 at 25.2% Cr_2O_3 1942 (C H Stockwell 7/10/43, GSC unpubl memo)	Grade visually estimated in drill cores.
QUE-27	PENHALE MINE Asbestos Corp L 21 L/3 46°01.3' 71°24.3'	Penhale is the northernmost of the three major Vimy Ridge deposits and the only one entirely under the bedrock surface, occurring down-plunge of the Normandie deposit. In serpentinized peridotite. Penhale's cross-fibre is relatively soft and mainly in the longer to intermediate grades.	pre-1965: discovered during outlining of Normandie deposit. 1965-68: dd. 1969-71: shaft sunk 1,645', dd u/g. Probably more surface dd since.	proven: 37,379,000 Asb grade unstated 1981 (CMH 1982-83, p 41)	The milling ore of the neighbouring Normandie mine graded about 5% fibre, mainly in group 4. The Penhale could go on stream quickly, should corporate priorities warrant.
QUE-28	PROVENÇAL Lake Asbestos of Que L 21 L/3 46°01.0' 71°20.6'	Deposit is exposed on the surface as 8 lenses of disseminated to massive chromite in serpentinized dunite, within an area of 400' x 120'.	1894-96 (?): mining in 5 pits. 1942: stripping, trenching, sampling.	40,600 at 14% Cr_2O_3 to 100' 1942 (C H Stockwell, 10/02/43 GSC unpubl rept)	The estimate allows for intermixed waste plus 25% dilution and assumes that the shallow lenses are repeated to 100' depth. Prob Cr/Fe ratio of concentrate would be 2.6:1.
QUE-29	REED-BELANGER (CHROMERAINE) Lake Asbestos of Que L 21 L/3 46°00.7' 71°20.6'	Banded, disseminated chromite in serpentinized dunite, traced 2,000' along strike, up to 60' wide. The largest known chromite deposit in Quebec.	1894-96: small scale o/p mng. 1915-21, 1923: prod from o/p and u/g (1919-20). 1924: dd. 1942: dd, new shaft sunk 480', mill erected. 1943-44: prod of 165,000 ore by Wartime Metals Corp.	486,000 at 6-8.5% Cr_2O_3 1944 (MPS WR McClelland memo 30/12/48)	Total production to date was c 300,000 at 10% Cr_2O_3, mainly from the Reed section.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-30	HARVEY HILL Canbec Res L 21 L/6 46°15'50" 71°12'25"	Bornite, cp and secondary chalcocite in schistosity planes and qtz-carbonate veins in Cambrian metasediments; probably derived from remobilization of original sedimentary sulphide deposits.	c 1850: discovery. 1858-99: intermittent small prod from several shafts and adits. 1951-52: geoph surveys, dd. 1955-57: u/g dev. 1973: u/g dev, mill construction. 1974-76: produced some 2,300 tons Cu plus Ag, Au from 175,000 tons milled.	450,000 at 1.56% Cu 1976 (Que DP-346(v), pt A, p 10, 1976) or 350,409 proven at 1.51% Cu (diluted) 1980 (NM 09/10/80)	Plans to reopen in 1981 were deferred due to low copper prices.
QUE-31	CRANBOURNE North American Asb CL (in 1976) 21 L/7 46°22.7' 70°38.2'	Chrysotile asbestos in serpentinite.	1921: discovery. 1949-56: dd and trenching; some 3,000 tons tested in a pilot mill on the property and outside.	ind: 35,000,000 at 7.25% Asb 1952 (NM 4/12/52) or 10,500,000 at 4+% Asb to 330' 1955 (NM 19/07/56)	Mining concession revoked in 1976. Asbestos is probably short slip-fibre.
QUE-32	GOLDEN AGE Golden Age ML (in 1976) 21 L/7 46°15'25" 70°48'44"	Mainly slip-fibre chrysotile, with minor cross-fibre, in several lenses of serpentinized ultrabasic rocks.	pre-1862: discovery. 1904-07: trenching. 1949: mag survey. 1951-58: drilling, pit sinking, bulk sample tests. 1958-62: 15,000 tons treated in mill on property.	proven: 2,040,960 at $9-14 Asb/ton, ind: 4,796,258 and prob: 12,665,250 1961 (Golden Age ML, 1961 AR)	The fibre is short, low in impurities, and of near white colour.
QUE-33	PANET METALS Panet Mtls Corp L (in 1954) 21 L/9 46°35.3' 70°13'	Several sulphide-rich lenses up to 500' long in slate. Py sph, cp, gal.	1952-53: geoph surveys, trenching, dd.	300,000 at 2.67% Zn, 0.40% Cu, 0.43% Pb, 0.06 oz/t Au, 0.58 oz/t Ag to 300' 1954 (CMH 1954, p 151)	
QUE-34	ST-FABIEN COPPER (EASTERN METALS) St. Fabien Expls Inc 21 L/9 46°39.1' 70°12.7'	Two separate pyritic zones 500' apart. Ni-rich zone contains millerite, nickeliferous py, gersdorffite and secondary violarite, as well as sph. The cp-rich zone contains some bornite and secondary chalcocite. Both deposits occur in silicified and carbonitized zones at the contact between slate and serpentinized peridotite, and are regarded as volcanogenic.	1949: discovery. 1950-52: dd. 1952-57: shaft 1,233' deep with 8 levels; lateral advances and dd; Ni zone prepared for mng. 1960-61, 64: dd. 1967: workings dewatered; bulk samples taken and tested by J P Sheridan interests. 1980: technical evaluation by Quebec Manganese M Inc.	blocked out: 389,390 at 0.91% Ni plus developed: 956,262 at 1.52% Cu, 0.15% Ni 1956 (NM 14/01/60)	The Ni deposit contains more than 1% Zn. In 1967 metallurgical tests gave poor Ni recoveries due to the presence of talc in ore and of Zn in concentrate, while recalculation of Cu zone substantially reduced the estimated mineable tonnage.

QUE-35	PORTNEUF Portneuf Mnrl Corp (in 1960) 21 L/12 46°41.6' 71°55.7'	Pegmatite in Grenville granitic gneiss contains biotite, qtz, feldspar and moly.	pre-1935: discovery and trenching. 1953: stripping, pit excavation. 1954: limited dd.	4,500,000 at 0.30% MoS_2, 40% biotite 1954 (FP Surv Ms 1960, p 309)	Potential tonnage is probably much less, the estimate being based on insufficient data.
QUE-36	LEEDS METALS Leeds Mtls CL (in 1970) 21 M/10 47°43.3' 70°41.7'	A quartzite member, consisting of alternating white and pink bands, within a garnet-sillimanite gneiss. The drill indicated resources cover a block of 2,800' by 400' by 500' deep.	pre-1964: pits sunk. 1964-65: dd, bulk sampling and testing.	dd-ind: 33,000,000 at 98.69% SiO_2 1965 (Que GM-16813, 1965)	Bench scale mill tests indicated low cost beneficiation to greater than 99% SiO_2 and less than 0.05% Fe oxides, but the raw material grade is lower than of the quartzite currently quarried at nearby Petit Lac Malbaie. Company was unable to secure production financing between 1965 and 1970.
QUE-37	ST-URBAIN Soquem 21 M/10 47°32.3' 70°33.4'	Several lode deposits of massive ilmenite, in the form of dykes and vein swarms, cut anorthosite and are confined to a one square-mile area, in the southern sector of the 18 by 12 mi body of St-Urbain anorthosite.	1666 or before: discovery. 1872-74: Furnace deposit worked. 1900-1909: intermittent test shipments. 1910-18: prod. 1928-32: small shipments. 1940-46: some 200,000 shipped as titania source. 1957-65: more than 300,000 shipped to concentrator at Baie St-Paul, for aggregate use. 1972-75: re-evaluation and ore treatment tests. 1977: 53,000 mined by Houston Aggregate Co of Can L from Bignell.	22,836,000 at 28.4% Fe, 30.5% TiO_2, aggregate of those listed below 1974	In 1973-74 Tiron Chemical Corp undertook research for the fabrication of synthetic rutile (TiO_2) from the ilmenite. Agreement for a 50-50 enterprise with Soquem was terminated in Dec 1976.
	Bignell			3,400,000 at 34.3% Fe, 34.9% TiO_2	Less 53,000 mined in 1977.
	Dupont			2,500,000 at 31.1% Fe, 33.6% TiO_2	
	Coulombe			7,400,000 at 26.6% Fe, 29.7% TiO_2	
	Coulombe NW			36,000 at 29.8% Fe, 32.8% TiO_2	
	General Electric			7,200,000 at 27.3% Fe, 29.2% TiO_2	
	Other Deposits			2,300,000 at 26% Fe, 27% TiO_2 (Que TT, 1978)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-38	PETIT LAC MALBAIE (LA GALETTE) Soquem 21 M/15 47°45'45" 70°38'11"	A qtzite band averages 250 m in width and has been traced at least 2 km on strike between garnet-sillimanite gneisses and charnockitic migmatites.	1971: described and sampled by J Rondot. 1977-78: small-scale extraction. 1979-81: sampling, dd, prelim marketing and infrastructure studies by Soquem.	67,000,000 mt SiO_2 at 0.08% Fe_2O_3, 0.38% Al_2O_3 1981 (Soquem 1981-82 AR)	
QUE-39	MID-PATAPEDIA Mid-Patapedia ML 21 O/14 47°52.0' 67°23.5'	Disseminated to massive po, cp, sph and gal in skarn.	1967: mag, EM, soil surveys. 1968: stripping, trenching, dd. 1971-73: IP, gravity and mag surveys, dd by Imperial Oil.	4,000,000 at 0.25-0.30% Cu, 0.5 oz/t Ag 1968 (NM 4/07/68)	Resource estimation based on 4 ddh only. Results of further dd by Imperial Oil are not known, but the option was dropped.
QUE-40	ARSENAULT LAKE Aggressive Mng L 22 A/6 48°22.2' 65°13.5'	Several lenticular qtz veins in sandstone, branching off Grand-Pabos fault, contain gal and sph with strong Au and Ag values.	1938: discovery. 1972: silt and VLF surveys. 1973-74: trenching, sampling. 1975-76: geochem, geoph, dd. 1977-78: dd, bulk sampling.	ind: 200 T/VF at 0.45 oz/t Au, 5.75 oz/t Ag, 6.6% Pb, 3.5% Zn 1975 (NM 23/10/75)	Under option by Imperial Oil since 1974.
QUE-41	MILLER COPPER Fonbec Ltée 22 A/13 48°56'45" 65°31'00"	Apparently skarn type cp deposit occurring at about 1,000' depth.	1955-57: EM survey and dd. 1966: dd. 1970-71: u/g heading advanced from Gaspé Copper's Needle Mtn workings to Miller Copper boundary, whence deposit tested by dd.	dd-ind: 750,000 at 0.97% Cu 1957 (NM 01/02/62)	Best access for mining is from Needle Mtn workings, subject to viability and arrangement with Noranda.
QUE-42	PEKAN Sullipek Mns Inc 22 A/13 48°51.9' 65°58.0'	Py, cp, sph, bornite and moly disseminated in skarn over an area of 3,000' x 1,000'. A multitude of barren acidic dykes dilute and give erratic tenors within the area of mineralization.	1963-65: mag, IP and geochem. 1965-70: over 150,000' dd. 1968-69: adit workings advanced 4,855'.	3-4,000,000 at 0.8% Cu or 12,000,000 at 0.4% Cu 1969 or 560,000 at 1.4% Cu 1976 (Que DPV-494, p 52, 1977)	Erratic mineralization creates practical mng problems. Last re-evaluation in 1975 by McIntyre ML.
QUE-43	BASKET RIVER Soquem (in 1970) 22 B/2 48°05.8' 66°46.9	A skarn deposit, 1,000' in diameter, contains cp and bornite as disseminations and fracture fillings.	1967-68: stream sediment sampling; discovery. 1968-70: surface sampling, dd.	ind: 170,000 at 0.57% Cu, 0.25 oz/t Ag 1970 (Que GM-26043)	
QUE-44	ST. DENIS MANGANESE Que Manganese M Inc 22 B/14 48°51.0' 67°13.0'	Manganese nodules up to .5" across are disseminated in the soil beneath vegetal cover; in marshy places the nodules aggregate into firm porous layers several inches thick. The underlying bedrock consists of Ordovician basic volcanics and impure sandstones.	1939: staked. 1949-50: analysis of samples. 1956: shallow dd. 1974: geoph survey.	(i) Zone 1: 116,400 at 8.2% Mn (ii) Zone 2: 15,800 at 13.1% Mn (iii) Zone 3: 14,200 at 9.7% Mn 1957 (Que GM-5147A, 1957)	

QUE-45	FEDERAL Fedpen Ltée 22 B/16 48°46.4' 66°08.2'	Numerous, mostly barren, qtz veins cut Lower Devonian sediments on this large property. Some veins contain sph, gal, cp and carbonate.	1909: discovery of Federal Vein. 1916-22: several shafts and adits; shaft on Federal Vein to 285' with 2 levels; sampling. 1925-27: discovery of S Brandy Brook, dd. 1950-53: dd and adit on S.B.B. 1962-63: geoph work, dd. 1973: dd. 1980: geoph, geochem, 2 ddh.	(i) Federal Vein: 40,000 at 4.40% Zn, 0.71% Pb (ii) South Brandy Brook: 600,000 at 3.95% Zn, 1.31% Pb 1953 (East Sullivan ML, 1953 AR	Optioned by Noranda Expl Co L in 1979.
QUE-46	MT OLIVINE Conwest Expln CL (80%) 22 B/16 48°54'40" 66°07'00"	Fresh olivine in layers of dunite at the east perimeter of the Mt Albert ultramafic complex.	1966: discovery. 1975-76, 79: feasibility studies.	75,000,000 at 90% olivine 1975 (Que DP-346(v), pt B, p 4, 1976; Que GM-30272)	Olivine for use in refractories. Eventual extraction would be by quarrying at 100-200,000 tpy. Under option to Intl Mnrls & Chemical Corp (Can) L.
QUE-47	KONTIKI Kontiki Lead & Zinc ML (in 1976) 22 C/4 48°01.2' 69°59.4'	Muscovite and biotite occur both in metasedimentary schists and gneisses and in bodies of pegmatite. Largest muscovite crystals are found in the vicinity of bodies of white pegmatite.	c 1911: mica mined on a small scale. 1973: optioned and mapped by Kontiki. 1974-75: dd, bulk sampling and testing by S.E.R.E.M. L for both muscovite and feldspar.	poss: 2,000,000 at 20% muscovite plus 350,000 at 15% muscovite 1973 (Que GM-29639, 1973)	Average grade visually estimated; later re-estimated at 8%. A re-evaluation in 1976 showed the mica to have poor colour and contain inclusions.
QUE-48	ST FABIEN (ROY-ROSS) Esso Res Can L 22 C/7 48°16.2' 68°16.2'	A number of barite veins, some containing dis galena, cut Lower Ordovician sandstones.	pre-1900: discovery trenching, small shafts. 1951: dd. 1961: old adit advanced. 1970's: Esso Res - details NA.	(i) Zone 1: 60,000 mt at 40% barite (ii) Zone 2: 60,000 mt at 28% barite (iii) Zone W: 18,000 mt at 98% barite (Que Fiche 22 C/7-5; 1981)	This property has been investigated mainly for barite and lead.
QUE-49	K-NUTS Reed ML 22 D/10 48°42' 70°50'	Magnetite-ilmenite in anorthosite.	1963: dd. 1980: mag survey.	dd-ind: 3,500,000 at 49% Fe, 18% TiO_2 1963 (J Pérusse 1972, oral commun)	
QUE-50	ST-CHARLES Grand Saguenay Ms & Mnrls L 22 D/11 48°31.1' 71°27.9'	Lenticular bodies of titaniferous magnetite, some with up to 30% apatite, occur in gabbroic anorthosite in an area 6,000' x 1,200'.	pre-1884: discovery. 1912: sampled. 1948: sampled. 1951-55: dd, ore dressing tests. 1963-77: dd, metallurgical tests (1972), review of phosphate prospect (1974).	6,096,000 lt at 29.47% Fe, 10.1% TiO_2, 0.10% V_2O_5 (Que GM-30853, 1973)	
QUE-51	BRULE (LISE) LAKE Reed ML 22 F/5 49°23.0' 69°58.2'	Several lenses of massive ilmenite-hematite, up to 100' thick occur conformably in gneissic andesine anorthosite.	1956, 1964: dd, sampling. 1975-76: dd under option by Houston Aggregate Co of Can L.	prob: 5,528,000 plus poss: 1,000,000 at 42% Fe, 35% TiO_2 1964 (J A Francoeur 12/02/72 oral commun)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-52	CHESNAYE LAKE Laurier Res L 22 F/8 49°17.2' 68°15.2'	A qtzite member in Grenville rocks traced 7 mi along the crest and limbs of a plunging anticline.	1934: reported by Faessler. 1957: dd. 1969-70: trenching, sampling, dd. 1970-71: feasibility study, testing. 1975: sampling and dd.	3,500,000 at 98+% SiO_2 (98% cut-off) to 150', with a potential of several hundred million tons 1969 (CIM Bull, Nov 1971, p 88)	Tests showed that the material meets specifications of glass manufacturers after upgrading by magnetic separation. Content of Al_2O_3 can be reduced below 0.20% and of Fe to below 0.02%.
QUE-53	CANDEGO MINE M. Prévost 22 G/1 49°03.8' 66°04.1'	A number of qtz-carb-Pb-Zn veins occur along or near Candego fault, a schistose sericite-chlorite-hydrocarbons zone cutting Lower Ordovician slates and sandstones. In addition to gal and sph, sulphs (minor) are po, cp, tetrahedrite and bournonite.	1916-44: sporadic surface work. 1945-47: preprod work; erection of 50 tpd mill. 1948-54: mng and milling from 7 adits and open cuts of 70,000 at 6.35% Pb, 4.28% Zn, 5.19 oz/t Ag and 0.02 oz/t Au. 1956: geoph survey, minor u/g dd. 1966: EM survey, 20 ddh.	5,000 in place at unstated grade, plus several dozen thousands in tailings at 0.43 oz/t Ag, 0.04 oz/t Au 1978 (Que GM-36258, 1955; Que GR 187, 1977)	Grade of tailings is based on analysis of only 2 samples.
QUE-54	MADELEINE MINE Madeleine ML 22 G/1 49°00.5' 66°00.4'	Cp and bornite in fractures in hornfels adjacent to a Devonian granitic stock.	1964: discovery, dd. 1966-67: dd. 1967: u/g dev started via adits and spiral declines. 1969-76, 79-82: prod 88,746 tons Cu and 1,621,000 oz Ag from 8,133,848 milled.	1,063,729 at 0.99% Cu 1/07/1982 (Madeleine ML, 1982 AR)	This known remaining tonnage was uneconomic when the mine shut down on 10/06/82.
QUE-55	KACHIWISS LAKE Getty Mnrls CL 22 J/8 50°21.1' 66°15.0'	Uraninite, uranothorite, monazite, uranophane and allanite in clusters, disseminations, with magnetite and biotite and along fracture planes; in low-dipping pegmatite dykes, associated with Grenville paragneiss	1967: airborne rad survey. 1968: ground rad survey, rock trenching, sampling by Satellite Mtl ML.	16,598,100 mt at 0.16% U_3O_8 1978 (Que GM-34330, 1978)	Located west of Moisie River, 12 mi north of Sept-Iles.
QUE-56	LA BLACHE-HERVIEUX-SHMOO LAKES Camchib Res Inc 22 K/4 50°02.4' 69°40.2'	Magnetite and ilmenite in anorthosite.	1953-54: geol and mag surveys. 1964: dd. 1981: evaluation.	pot: 79,000,000 at 48% Fe, 20.5% TiO_2 1964 (CMH 1965, p 42)	
QUE-57	PAMBRUN LAKE Caneonti ML (in 1957) 22 M/10 51°41.2' 70°49.3'	A body, at least 1,000' square, of massive magnetite-ilmenite, with some interspersed waste, hosted by foliated anorthosite.	1953: discovery, preliminary tests. 1954-57: dip needle surveys, sampling.	poss: 50,000,000 lt at 19% TiO_2, 47% Fe to 500' 1954 (L&P Moyd, unpubl rept 01/09/54)	Grade is based on analysis of a 60 lb composite of a number of surface samples.

QUE-58	MAGPIE MTN (MINGAN) Soquem 22 P/8 51°23.7' 64°03.8'	Titaniferous magnetite, massive and interbanded with gabbroic anorthosite and anorthosite intrusive into Grenville-type gneisses.	1953: discovery 1954-55: geol and mag surveys, concentration tests. 1959-60: sampling, smelting tests. 1969-76: bulk sampling, metallurgical testing, feasibility studies.	ind & prob: 1,106,800,000 lt at 42.9% Fe, 10.5% TiO_2, 1.6% Cr, 6.8% SiO_2, 0.17% V_2O_5 in 4 deposits 1969 (CIM Bull, vol 64, p 62, Dec 1971)	
QUE-59	JIMMICK LAKE Hollinger North Shore Expl Inc 23 J/16 54°59.2' 66°12.5'	Cp, sph and gal with py and po in schists.	c 1960: geoph surveys and dd.	dd-ind: 120,000 at 5.20% Zn, 0.26% Cu, 0.61% Pb c 1960 (Labrador Mng & Expl CL 12/10/77, written commun)	
QUE-60	DIETER LAKE (4642-1) Uranerz (50%), James Bay Dev Corp (50%) 23 M/15 55°56' 70°35'	Uranium mineralization in the basal units of the Sakami Fm (shale and siltstone) in an Aphebian outlier resting on Archean basement.	1976-78: geochem and radiometric surveys. 1979-80: dd.	poss: 50,000,000 mt at 0.10% U_3O_8, or 10-15,000,000 mt at 0.25% U_3O_8 1980 (Finance 10/11/80)	Suggested by drilling to a maximum depth of 1,000'.
QUE-61	BLUE LAKE Hollinger North Shore Expl Inc 23 O/1 55°13.7' 66°07.9'	Disseminated to massive po and cp in a gabbro-peridotite complex.	1956-57: dd.	506,000 at 0.85% Cu, 0.50% Ni 1956 (Labrador Mng & Expl CL 12/10/77, written commun)	
QUE-62	FREDERICKSON LAKE Hollinger North Shore Expl Inc 23 O/1 55°03.2' 66°15.9'	Three separate sulphide deposits, essentially concordant, one in sediments and two in a gabbro sill.	1942 (?): discovery. 1943: surface work. 1944: dd. 1949: detailed ground surveys.	308,000 at 4.38% Zn, 0.77% Cu, 0.02 oz/t Au, 1.23 oz/t Ag 1944 (Labrador Mng & Expl CL 12/10/77, written commun)	
QUE-63	RETTY LAKE Hollinger North Shore Expl Inc 23 O/8 55°15.3' 66°12'	Disseminated to massive po-cp in peridotite.	1966: EM survey. 1967-68: dd.	dd-ind: 1,500,000 at 1.5% Cu-Ni 1968 (Hollinger ML, 1968 AR)	At the end of 1967, when the deposit was only partially drilled off, the estimate was 500,000 at 1.2% Cu, 0.67% Ni.
QUE-64	CHANCE LAKE Hollinger North Shore Expl Inc 23 O/10 55°41.3' 66°45.7'	Disseminated to massive po and cp in a sulphide zone 30' thick overlying the basal tremolite zone of a serpentinized peridotite sill.	pre-1959: geol and geoph surveys. 1959: dd.	dd-ind: 716,000 at 0.89% Ni, 0.66% Cu 1959 (Hollinger Cons GML, 1959 AR)	
QUE-65	FRANELLE Canada Tungsten Mng Corp L (in 1977) 23 O/11 55°33.5' 67°21.0'	A gabbro dyke consisting of several phases of intrusion, cuts sandstone. It contains cp, bornite, chrysocolla as disseminations and fracture and cavity fillings throughout 8,600' length and 200'-230' width.	1976: discovery. 1977: mag and EM surveys, rock trenching, dd.	poss: 110,000,000 at 0.23% Cu 1977 (Que GM-33646, 1977)	Based on 6 ddh put down on two sections and on lateral projections. This deposit is located in the Labrador Trough, 60 mi N of Schefferville.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-66	MARYMAC Hollinger North Shore Expl Inc 24 C/15 56°56.8' 68°32.0'	Several lenses of massive and disseminated py-po-pn-cp-sph in gabbro and tuff.	1954-55: mag and EM surveys, dd. 1972-81: geoph surveys, dd.	1,200,000 at 2.02% Cu, 0.45% Ni 1976 (Que DPV-737, p 91, 1980)	Resources are those estimated for Island and Lepage zones.
QUE-67	KOKE Cominco L 24 F/11 57°39.7' 69°27.0'	Massive py with sph, cp and gal in a stratum of qtzite, adjacent to graphitic phyllites and schists.	1961: discovery, trenching, sampling.	1,169,165 at 0.70% Cu, 6.86% Zn, 1.03% Pb, 0.03 oz/t Au, 1.59 oz/t Ag c 1961 (Que TT, 1978)	Some dd has been done since Cominco acquired this ground c 1970.
QUE-68	CHRYSLER NO. 2 Hollinger North Shore Expl Inc 24 F/13 57°56' 69°39'	Po-py-cp-sph in a discontinuous mineralized zone over an area 2,100' by 80', in blotchy gabbro.	1953-63: geol and geoph surveys, dd.	dd-ind: 580,000 at 1.79% Cu, 0.48% Ni 1963 (Labrador Mng & Expl CL 12/07/77, written commun)	
QUE-69	ERICKSON NO. 1 Hollinger North Shore Expl Inc 24 F/13, K/4 58°00.6' 69°45.2'	Po, pn, py, cp in two deposits (4,000' x 75' and 2,000' x 35') a mi apart near the base of a blotchy gabbro sill.	1953-55: mag and EM surveys. trenching, dd.	dd-ind: 573,000 at 1.12% Cu, 0.32% Ni 1955 (Labrador Mng & Expl CL 12/10/77, written commun)	
QUE-70	LESLIE NO. 2 Hollinger North Shore Expl Inc 24 K/4 58°01' 69°47'	Po, pn, cp and py in the lower part of a blotchy gabbro sill. Deposit is 7,000' x 100'.	1953-55: geol, mag and EM surveys, trenching, bulk sampling, dd. 1969: dd.	dd-ind: 765,000 at 1.56% Cu, 0.33% Ni 1955 (Labrador Mng & Expl CL 12/10/77, written commun)	
QUE-71	PARTINGTON NO. 1 (CROTCHET L) Ungava Copper Corp L (in 1955) 24 K/4 58°06' 69°55'	Po, minor py, in black shale.	1954-55: channel sampling and dd.	30,000,000 at 25.88% S 1955 (Que SP-5, p 18, 1970)	Grade is the average from 5 ddh. Arithmetic average of 136 channel sample assays is 21.47% S.
QUE-72	PARTINGTON NO. 2 Ungava Copper Corp L (in 1955) 24 K/5 58°16' 69°54.5'	Massive sulphides replacing shale at the contact with gabbro.	1954: mag survey, channel sampling, dd.	7,000 T/VF at 0.51% Cu, 0.09% Zn, 0.004 oz/t Au, 0.08 oz/t Ag 1954 (Ungava Copper Corp L, 1954 AR)	Vicinity of Prud'homme No. 1.
QUE-73	PRUD'HOMME NO. 1 Hollinger North Shore Expl Inc 24 K/5 58°15.6' 69°54.5'	Py with po, cp, sph in silicified sedimentary rock.	1955-56: mag and EM surveys, dd. 1962-66: surface work, dd.	(i) Main Zone: 4,745,000 at 2.04% Cu, 2.66% Zn, 0.04 oz/t Au, 0.953 oz/t Ag (ii) North Zone: 562,000 at 2.05% Cu, 2.30% Zn, 0.05 oz/t Au, 1.01 oz/t Ag 1966 (Que 23/08/77, written commun)	

QUE-74	SOUCY NO. 1 Esso Res Can L (75%) Unérgie Inc (25%) Can L 24 K/5 58°19.2' 69°52.2'	Py, po, cp, sph and pn replace sediments at a contact with a gabbro sill.	1954-55: dd. 1972-76: dd.	(i) A Zone: 6,000,000 ind at 1.34% Cu, 1.87% Zn, 0.047 oz/t Au, 0.54 oz/t Ag 1975 (CMH 1979-80, p 190) (ii) C Zone: 143,000 poss at 0.72% Cu, 0.22% Ni 1955 (Que GR 104, p 95, 1965)	
QUE-75	PIO LAKE Premium Iron Ores L and Falconbridge L 24 K/13 58°57.8' 69°36.5'	Two veins 50' apart near contact between pillow lavas and an ultramafic sill. East Vein is 175' long, West Vein is 125' long; both are 7' wide and contain cp and pn.	1969: discovery. 1970-74: geoph surveys, dd. 1973: 500' adit driven, ore stockpiled. 1974: 20 tph pilot plant erected and operated.	(i) East Vein: 26,500 at 6.40% Cu, 3.00% Ni (ii) West Vein: 17,000 at 5.85% Cu, 0.25% Ni 1974 (Que YY, 1978)	Held under option by Lone Star Mng & Expl CL, which suspended work in 1974 because of low metal prices. Tests in 1979 showed feasibility of direct recovery from ore by electrodeposition.
QUE-76	HOPES ADVANCE BAY Hawkridge Joint Venture Esso Res Can L (in 1978) 24 N/4 59°10' 69°38'	Massive to dis po and cp in blotchy gabbro and ultrabasic rocks.	1960: initial discoveries, surface work. 1970-72, 75: geoph, geochem, dd.	(i) Group 1: poss: 1,000,999 mt at 0.59% Cu, 0.16% Ni. (ii) Group 1N: poss: 42,000 mt at 2.17% Cu, 0.33% Ni. (iii) Group 3: prob: 5,103,000 mt at 0.76% Cu, 0.26% Ni 1975 (Que GM-35605, 1979)	
QUE-77	BAIN (INDIAN) Ansil ML (option in 1965) 31 F/9 45°44.3' 76°08.2'	Molybdenite in flakes and aggregates in bodies of pyroxene and pyrite within hornblende gneisses.	1917-18: pits sunk, test shipments. 1921: concentration tests. 1925: surface work. 1927, 1933: surveys incl mag. 1937: pilot mill erected and operated. 1939: dd. 1943-44: about 1,500 milled. 1965: dd.	14,500 at 0.26% MoS_2 1943 (GSC EG 20, p 201, 1963) or poss: 2,000 at 0.5%-1.0% MoS_2 and 18,000 at 0.2% MoS_2 1943 (Que MIQ 1943, p 39)	V L Eardley-Wilmot (1943) did not think these estimates (by W.N. Ingham) were justified.
QUE-78	DUN RAVEN Dun Raven ML (in 1956) 31 F/9 45°42.1' 76°23.5'	Disseminated graphite flakes in flat-lying zones: 'A' 61' thick and 'D' 77' thick, in biotite-feldspar paragneiss interbedded with crystalline limestone.	1954-55: discovery, trenching, mag-SP survey, dd, concentration tests.	(i) A Zone: 630,000 dd-ind at 4.72% C (ii) D Zone: 3,350,000 dd-ind at 4.0% C 1955 (Que PR 390, p 17, 1959)	Concentration tests reportedly produced good quality flake graphite.
QUE-79	KERT Panacea Mng & Expl L (in 1970) 31 F/9 45°43.6' 76°09.0'	Moly with cp in lenses of pyroxenite within Grenville limestone and gneisses. Pegmatite dykes in the vicinity carry small U values.	pre-1884: discovery. 1916-17: small shipments. 1939: concentration tests. 1954: pilot plant operated. 1955: explored for U, dd. 1965: dd. 1968: airborne scint survey.	2,200 at 0.21% MoS_2 1942 (Que unpubl rept M-506, 1942)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-80	KIRKHAM Bidlamaque GML (option in 1965) 31 F/9 45°40.0' 76°24.3'	Moly occurs with po, py, cp and minor U minerals in lenses of diopside-rich pyroxenite within Grenville sedimentary gneisses and limestones and along contacts with pegmatites.	1951: discovery. 1952-57: rad survey, dd, rock trenching, 2 adits, bulk sampling, milling tests. 1965: IP survey.	meas & ind: 280,000 at 0.502% MoS_2 1957 (GSC EG 20, p 175, 1963)	Grade is that of mill-heads from a 90-ton sample. Drift muck samples averaged 0.547% and channel samples 0.484% MoS_2. Milling showed a recovery of 83.9%.
QUE-81	MOSS MINE Operators L (in 1944) 31 F/9 45°34'25" 76°14'36"	Moly, disseminated and in aggregates, with py, po, fluorite and magnetite. Probable origin is by magmatic segregation from the host qtz syenite.	1915: rock trenching. 1916-19: mng and milling 60,000 t from No. 1 Pit. 1924-26: mng and milling of 8,000 t. 1940-44: mng and milling of 138,000 t.	prob & poss: 38,000-56,000 at 0.4% MoS_2 1942 (CW Greenland 11/42, rept to Quyon Molybdenite CL)	
QUE-82	NEW CALUMET MINE Cons Professor ML 31 F/10 45°42.2' 76°40.4'	Ore shoots and masses occur in (Grenville) biotite paragneiss near its contact with an overlying amphibolite. Sph, py, marcasite, po, gal, with some cp and asp, replace a pre-ore gangue of Ca and Mg silicates.	1891-1918: dev and prod from small u/g workings; small shipments 1891-98, 1917-18. 1937-42: extensive dd; sinking of the main shaft; erection of an 800 tpd mill. 1943-68: prod of 3,743,785 tons at 6% Zn and 1.7% Pb.	282,255 at 4.51% Zn, 1.08% Pb, 2.34 oz/t Ag, 0.014 oz/t Au 1968 (New Calumet ML, 1969 AR)	A quarter of the tonnage is in pillars, the rest in low grade (3% Zn) pockets elsewhere in the mine.
QUE-83	PORTAGE-DU-FORT W Devecsery 31 F/10 45°35' 76°39.5'	Grenville magnesium-rich dolomite.	1979 and prior: sampling.	10,000,000 mt at 21.0% CaO, 31.0% MgO 1979 (Que TT, 1983)	
QUE-84	CALUMET URANIUM MINES Atlanta ML (in 1967) 31 F/15 45°47'10" 76°43'15"	Uranorthorite and monazite in fluorite-pyroxene and calcite-rich skarns.	1953-54: rad surveys, stripping, sampling. 1954-56: dd.	440,000 at 0.08% U_3O_8, 0.29% ThO_2 across 4' 1956 (NM 06/12/56)	
QUE-85	YATES Futuranium ML 31 F/15 45°57.6' 76°32.9'	Matte zone is a calcite-pyroxene-fluorite-apatite vein-dyke, 800' by 20', that cuts granite pegmatite. Camp zone, 0.7 mi SW of Matte, is a calc-silicate zone composed of calcite, scapolite, diopside and phlogopite. Radioactivity occurs over 900' by 100'. Radioactive minerals in these zones incl thorianite, uranothorite, allanite and uranophane.	1953-56: rad surveys, rock trenching, dd, 170' adit on Matte zone. 1976: dd on Matte zone.	(i) Matte zone: 201,923 ind at 0.078% U_3O_8, 0.695% ThO_2, 15% fluorite, 5% apatite plus 3,153,486 inf same grade 1956 (ii) Camp zone: 183,865 ind at 0.056% U_3O_8, 0.15% ThO_2 plus 468,542 inf same grade 1955 (NM 22/03/56)	An area west of the Camp zone was originally worked for mica, most actively in 1914-18 and 1945. The same locality is the only one in Quebec from which (a small amount of) fluorite was shipped, in 1943.

QUE-86	COULEE-HEADWAY Soc Mnre Columbec Ltée 31 G/8, 9 45°30.0' 74°02.9'	Pyrochlore-bearing sovites interbanded with ijolites and okaite comprising the SE third of the Bond zone, in west-central part of the Oka alkaline complex. Deposit contains values in Cb, Ta, Ti, U, rare earths and phosphate.	1954: airborne mag and rad surveys. 1955-56: dd. 1960-61: ore dressing research, dd. 1980: gravity survey.	ind: 38,243,491 at 0.40% Cb_2O_5 or 106,503,345 at 0.26% Cb_2O_5 1956 (NM 21/04/66)	
QUE-87	'D' BLOCK St. Lawrence Columbium and Mtls Corp 31 G/8 45°29.7' 74°00.7'	Pyrochlore-bearing bands of sovite interbanded with ijolites and urtites; in the southeast sector of the Oka alkaline complex.	1954-57: airborne mag and rad surveys, ground rad surveys, dd.	ind & inf: 17,400,000 at 0.3-0.4% Cb_2O_3 1958 (C Carbonneau 12/04/58, rept for St Lawrence River ML)	Of this, 13 million tons is in the indicated category.
QUE-88	OKA COLUMBIUM St Lawrence Columbium and Mtls Corp 31 G/8 45°29.2' 74°00.4'	Pyrochlore-bearing sovites are interbanded with ijolites; at the SE margin of the Oka alkaline complex.	1954-57: airborne mag and rad surveys, dd.	22,500,000 at 0.4-0.5% Cb_2O_5, 0.20-0.50% rare earths, 0.06% ThO_2 1957 (IGC B-11, p 43, 1972; Que PR 390, p 82, 1959)	Deposit is located mostly under the waters of Lac des Deux Montagnes.
QUE-89	BOUSCADILLAC 'A' Cadamet ML (in 1960) 31 G/9 45°31.7' 74°04.9'	Presumably pyrochlore in carbonatite; near the NW margin of Oka alkaline complex.	1954-55: mag and rad surveys, dd.	3,800,000 at 0.31% Cb_2O_5, 0.50% rare earths, 10% apatite 1955 (CMJ, Dec 1955)	
QUE-90	MANOKA Fundy Chemical Int'l L (in 1973) 31 G/9 45°33.1' 74°01.6'	Values in Cb, Ta, Th, U and rare earths in a carbonatite boss, a satellite of the Oka alkaline complex.	1954-55: airborne, groundmag and rad surveys, dd. 1956: shaft to 450', work on two levels.	200,000 at 0.60% Cb_2O_5, 0.25% ThO_2, 1% rare earths to 400' 1955 (Que PR 354, p 10, 1957)	
QUE-91	QUEBEC COLUMBIUM Que Columbium L 31 G/9 45°30.2' 74°03.2' (Bond zone)	The two deposits are 6,000' apart and contain Cb, Ta, U, Th, rare earths and phosphates, occurring in sovite, interbanded with ijolite and okaite; within the northern ring of the Oka alkaline complex. Bond zone, of which two-thirds is on the property, is the largest known Cb-bearing zone in Oka area.	1952: discovery, first in Oka area. 1953-55: mag and rad surveys, stripping, trenching, dd. 1956-60: ore dressing research. 1959-61: dd. 1980: 2 ddh.	(i) Bond zone: 30,000,000 at 0.6% Cb_2O_5 to 500' (ii) Manny zone: 25,000,000 at 0.35% Cb_2O_5 1955 (Que PR 351, p 9, 1957)	Que. Columbium L is owned by Kennecott Corp (45.9%) and Molycorp Inc (44.1%). Drilling in 1959-61 has reportedly increased substantially the tonnage in Bond zone.
QUE-92	ST ANDRE Soquem and Teck Corp 31 G/9 45°33.8' 74°17.2'	Pyrochlore in a 7,000' x 2,300' carbonatite, 15 mi NW of the Oka alkaline complex. Deposit has significant fluorite content.	1967-69: rad survey, rock trenching, dd. 1969-72, 80: gravity, mag and IP surveys.	N/A Substantial Cb_2O_5. (Soquem 1969 AR)	Grade similar to that in the Oka deposits.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-93	ST. LAWRENCE COLUMBIUM (incl MAIN OKA) St. Lawrence Columbium and Mtls Corp 31 G/9 45°30.1' 74°01.8'	Pyrochlore, perovskite and niocalite in sovites interbanded with ijolites and nepheline syenites; in the east-central sector of the Oka carbonatite-alkaline complex.	1954-57: aeromag and ground rad surveys, dd. 1957-59: ore treatment research. 1960-61: mill erected. 1961-76: milled 6,840,000 tons (incl Main Oka 1974-76)	ind and proven: 25,566,000 at 0.44% Cb_2O_5, incl 18,400,000 in Main Oka May 1974 (NM 16/05/74)	Subsequent to the estimation, some 1,500,000 was mined, until closure in February 1976 by a strike, followed by offer of sale of assets by a Trustee. Property, plant, mill and other assets remained unsold in 1979. Development and mining (1974-76) had extended into the adjoining property of Main Oka Mng Corp, under long-term lease by St. Lawrence.
QUE-94	BELL GRAPHITE MINE Westfield Mnrls L (in 1958) 31 G/11 45°35.9' 75°21.8'	Disseminated flakes and flaky aggregates of graphite in crystalline limestone over 1,000' by 15'.	1906-12: mining from several adits; mill erected and operated. 1951-52: dd, ore testing.	185,000 at 9.4% C in a block 800' x 13.3' x 250' 1952 (Que MIQ 1952, p 49)	Lab tests showed suitability of recovering high-carbon, fine-sized lubricating grades of flake, but not for crucible production.
QUE-95	EASTERN ASBESTOS Eastern Asb CL (in 1976) 31 G/13 45°45.4' 75°38.8'	Cross-fibre in serpentinite derived from the alteration of crystalline limestone. Two fibre zones: 1,000' x 250' to 560'; 500' x 200'.	1892, 1900: small scale workings. 1953-56: rock trenching, dd, 2,700' lateral advances in adit, bulk sampling and testing.	1,500,000 at $18.50/t Asb 1955 or 10,000,000 Asb, grade unstated, mainly 4-7 groups, some 3K 1956 (Que ES-14, p 28, 1973)	
QUE-96	HIGH ROCK MINE Magnetics Int'l L 31 G/13 45°47.3' 75°37.8'	Apatite, disseminated and as massive pockets, in pyroxenite, probably derived by metasomatism from Grenville limestone.	1879: surface work. 1882-92: 300,000 mined from open pits and adit workings. 1905, 1910: small shipments. 1932, 1936, 1939-45: small shipments. 1949-50: adit workings extended, dd, milling tests, small shipments.	113,000 at 34.3% bone phosphate of lime or 285,000 at 22.3% BPL, plus 125,000 at unstated grade on dumps 1950 (Que Smg & Refining L, 1950 AR)	Company stated in 1950 that suitable concentration could be done for $1.17/ton at 100 tpd. 1% BPL = 0.458% P_2O_5.
QUE-97	ST-REMI Steetley Industries L 31 G/15 45°59' 74°45'	Quartzite, locally very friable, consisting of qtz crystals, 1 cm or more across, in a matrix of kaolinite. The deposit is probably derived from a Grenville feldspathic	1894: discovery. 1912-18, 1921-23: quarrying first for kaolin and later for silica and kaolin. 1937-39: shaft sunk, u/g dev.	Silica and kaolin: N/A	Steetley acquired the property outright in 1979 after holding it several years under option.

		quartzite, altered by emanations from granite surrounding the deposit.	1941: 200 tpd mill completed, prod from u/g. 1942-48: prod of qtz and kaolin from quarry. 1954, 56-58: silica shipped from quarry. 1975-79: dd, bulk sample testing. 1980: 10 ddh.		
QUE-98	CANADIAN GRAPHITE Jonpol Explo L 31 G/16 45°46.3' 74°19.5'	Disseminated flake graphite in crystalline limestone.	1863: surface work. 1911-15: rock trenching, 100' adit. 1918: dd, rock trenching and sampling.	180,000 at 6.15% c 1918 (CH Hitchcock 4/11/18, rept for Can Graphite CL)	Graphite was reported to occur in flakes of good size and quality.
QUE-99	PIN-ROUGE LAKE Laurentian Titanium ML 31 G/16 45°57.7' 74°02.7'	Ilmenite-hematite and titaniferous magnetite zones within a 1,000' wide band of foliated gabbroic anorthosite of the Morin anorthosite complex.	1896: discovery. 1952: aeromag and dip needle surveys. 1954-55: ground mag, rock trenching, dd. 1958: dd, sampling. 1959-62: beneficiation tests. 1976-80: under option by Canico - geoph surveys, beneficiation tests, minor dd.	(i) Hemo-ilmenite inf: 34.8 million at 17% TiO_2, 22% Fe to 300' 1980 (ii) Titaniferous magnetite inf: 124 million at 24% Fe, 7% TiO_2 to 200' pre-1972 (C Salamis, oral commun 1981)	Can beneficiate hemo-ilemnite to 38% TiO_2 and 45% Fe with less than 3% impurities at -48 mesh. Pellets grading 68.3% Fe, 1.25% SiO_2, 0.7% TiO_2, 0.03% P can be made from the titaniferous magnetite material.
QUE-100	TAMARA-DRUMMOND Laurentian Titanium ML 31 G/16 45°59.7' 74°02.8'	Two separate zones of titaniferous magnetite with minor hematite in a gabbroic anorthosite of the Morin intrusive complex. Adjoins Pin-Rouge Lake ground on the north.	1958-60: ground mag surveys, dd, bulk sampling, beneficiation tests.	360,000,000 at 7.6% TiO_2, 22% Fe to 500' at 20% dil 1960 (NM 06/10/60)	Tests gave a concentrate of 68.8% Fe, 0.5% Ti and 1.62% SiO_2 by grinding to -150 mesh and separating ilmenite out magnetically.
QUE-101	LITTLE MAGOG LAKE Messrs Ethier & Langlois (in 1956) 31 H/1 45°14.8' 72°04.5'	N/A	1956: unstated evaluation work.	2,100,000 "asbestos ore" 1956 (Que ES-14, p 70, 1973)	Reported in "La Tribune", Sherbrooke, 19/08/56.
QUE-102	BROMPTON Johns-Manville Canada Inc 31 H/8 45°28.8' 72°06.5'	Po, cp in ultramafic pyroclastics. Volcanogenic.	1960-65: geochem, mag, EM, IP, dd. 1974-76: geoph, dd.	500,000 at 1.6% Cu 1976 (Que DPV-578, p 16, 1978) or 700,000 at 1.70% Cu (Que GM-18216)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-103	FLETCHER (WEBSTER LAKE) Orford Mng CL (in 1942) 31 H/8 45°24.6' 72°06.6'	Pods and lenses of massive to disseminated chromite in dunite.	1940: discovery. 1940-42: No 4 prod 1,300 lt at 31% Cr_2O_3 from o/p and adit workings; No 5 and No 5E prod 300 lt.	(i) No 4: 1,000 lt poss at 35+% Cr_2O_3 in place 1943 and 600 lt at 20+% Cr_2O_3 on dump 1941 (J W Ambrose 05/07/43, VL Eardley-Wilmot 25/04/41, unpubl EMR repts) (ii) No 5: 1,000 lt pot at 35% Cr_2O_3 1942 (iii) No 5 Ext: 500-700 lt pot at 35% Cr_2O_3 1942 (VL Eardley-Wilmot 15/05/42, unpubl EMR rept)	Over 3,000 lt of cobbed ore were shipped (1916-17, 1940-42) from widely scattered pods within a 5-mi intercept of the Lower Ordovician ultrabasic band between Webster (Montjoie) and Brompton Lakes.
QUE-104	HUNTINGDON Sullivan Mng Gp L 31 H/8 45°15.8' 72°19.9'	Disseminated to massive py, cp, po, with some sph and gal, in a number of lenticular zones in basic metavolcanics, within 150' of the contact with serpentinized peridotite. Volcanogenic.	1865: discovered by a diviner. 1865-83: intermittent small prod from u/g and o/p. 1890-93, 1912-20: surf and u/g expl, minor prod. 1929: geoph survey, dd. 1950-53: dd, workings dewatered, new shaft sunk, mill erected. 1954-58: milled 1,200,000 recovering 0.9% Cu, 0.03 oz/t Ag, 0.003 oz/t Au.	800,000 at 0.88% Cu 1958 (Que SP-4, p 390, 1969)	Low grade remnants, mainly in 'C' and 'D' zones, including the shaft pillar.
QUE-105	IVES MINE BF Wheeler (in 1967) 31 H/8 45°17.6' 72°19.4'	Probably volcanogenic; disseminated po-cp zones in basic metavolcanics.	1866-1915: some 850 t cobbed Cu ore shipped from 2 shafts. 1918-30: intermittent work, third shaft sunk. 1942: Galt shaft workings sampled. 1951-57: geoph surveys, dd. 1965: geoph survey.	1,500' x 22' at 3-4% Cu 1957 (FP Corp Serv, Que Copper Corp L, 10/03/60)	Average of intersections obtained in drilling from surface.
QUE-106	DEROGAN (MELBOURNE) Kingsbury Asb ML (in 1971) 31 H/9 45°35.9' 72°07.0'	Short cross-fibre and minor slip-fibre chrysotile in a 8,000' by 1,400' area of serpentinized peridotite.	1876: small quantity produced. 1952-53: stripping, trenching, sampling. 1954-55: dd. 1955-56: adits driven 180' and 222', mill tests on bulk samples. 1957: mag survey. 1963: sampling, dd. 1971: rock trenching, sampling, dd, by Asarco.	30,000,000 at "good %" Asb 1954 (Que ES-14, p 73, 1973) or 15,000,000 at $7/t Asb (mainly group 5) (Golden Age ML, 1962 AR)	Kingsbury Asbestos ML dropped the ground in mid-1970's.

QUE-107	LILI (STERRET) MINE Int'l Pathfinder Res L 31 H/9 45°41.0' 72°02.4'	Asb and chromite within a sill of serpentinized peridotite.	1916: discovery. 1917-19: chromite mined from pits and 2 shafts. 1936, 1940: chromite zone sampled. 1941-45: 104,000 chromite ore mined and milled. 1951: dd for Asb. 1955: mag survey, dd (Asb). 1970-72: mag survey, dd, bulk sampling, mill testing (Asb). 1973: feasibility study (Asb). 1977: detailed bulk sampling and testing for Asb.	(i) 31,900,000 at 4.37% Asb or $7.10/t with $4.00/t cut-off (mainly 7 D, some 6, minor 4 and 5 groups) 1976 (NM 16/12/76) (ii) 75-90,000 at 18% Cr_2O_3 from 480' to 580' 1945 (VSE SMF, Pathfinder Res L, 15/12/70)	
QUE-108	ST-CYR St. Cyr Asb CL (in 1952) 31 I/9 45°42.5' 72°01.2'	Short-fibre chrysotile in serpentinized peridotite, 6 mi SW of Johns-Manville's asbestos pit.	pre-1947: rock trenching. 1952: dd.	8,500,000 Asb, grade unstated (mainly gp 7) 1952 (Que ES-14, p 76, 1973)	Possibly part of the Quebestos property, optioned by Soquem in 1978.
QUE-109	STEELE BROOK Acheron Res L 31 H/9 45°42' 72°08'	Four of five zones contain mostly slip-fibre chrysotile, in serpentinized peridotite.	pre-1962: dd. 1962: mag survey, dd.	ind-inf: 15,000,000 or 73,100 T/VF at 8.7% Asb 1962 (Que DP-286, p 24, 1975) or 50,000,000 at $2-3/t Asb 1973 (NM 10/05/75)	The fibre is reported to be medium to short in length, tension resistant and of good colour.
QUE-110	UPTON Upton Copper L (in 1967) 31 H/10 45°41' 72°40'	Sph, cp, bornite, gal, py, in Lower Paleozoic argillaceous cherty limestone, probably hydrothermally derived from ophiolitic rocks. The zone averages 30' in thickness.	1847-66: small shipments from open cuts. 1964-67: geochem and IP surveys, dd. 1980: dd by Shell Can Res L.	520,000 at 2.2% Zn, 0.44 oz/t Ag, 0.073% Cd to 200' 1965 (NM 17/03/66)	Drilling in 1967 reportedly upped the tonnage to 812,000, grade unstated.
QUE-111	MONTAUBAN Muscocho Expls L 31 I/16 46°50.1' 72°20.8'	Sph, gal, po, cp zones in a calc-silicate rock and cordierite-anthophyllite paragneiss, prob representing metamorphosed sedimentary deposits. Au-Ag zones are flat to low-dipping and occur within 200' of surface with values diminishing down-dip. North Gold is 15' thick and at least 2,400' long.	1910: discovery. 1911-14: small-scale prod from open cuts and shafts. 1915-61: intermittently milled 2,920,000 Zn-Pb-Ag-Au ore, developed extensive workings. 1952: Au zones outlined by dd. 1975-77: geoph surveys, dd and metallurgical tests of North Gold. 1978-79: dd, metallurgical tests of North Gold. 1980:-83: decline on North Gold with u/g dd and bulk sampling; milling tests.	(i) North Gold: 911,000 mt at 0.122 oz/t Au or 308,000 mt at 0.282 oz/t Au over 690 m 1982 (NM 8/07/82) (ii) South Gold: 98,070 at 1.99 oz/t Ag, 0.189 oz/t Au 1952 (NM 05/07/62) (iii) Base Metal Zones: 761,934 at 3.46% Zn, 1.07% Pb, 1.13 oz/t Ag, 0.016 oz/t Au 1955 (NM 24/06/76)	Combined ground of former Tétrault and United Montauban mines, under option to Muscocho. U/g expln and dev of North zone continuing with plans to start prod in 1983.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-112	TETREAULT TAILINGS Boville Res L 31 I/16 46°49.3' 72°20.5'	Tailings from the former Tétreault Mine parts of whose South Gold and Base Metal zones (QUE-111) dip into Boville property.	1910-81: (see QUE-111). 1981: the tonnage (wet basis) and grade determined from 300 tailings samples.	400,000 at 0.043 oz/t Au, 2.08 oz/t Ag 1981 (NM 24/03/82)	Processing tests under way in 1982. Eventual operating cost est at $25/ton.
QUE-113	DEGROSBOIS Pershing Amalg ML (in 1969) 31 J/1 46°05.9' 74°22.2'	Titaniferous mag in a breccia zone in and near the contact of gabbroic anorthosite and anorthosite of the Morin intrusive complex. The main zone is 900' x 600' x 95'.	1912: sampling, concentration tests. 1935: mapping, dip needle survey. 1941: pilot blast furnace operated. 1949: shipped 12,000 for heavy aggregate. 1952-53: mag survey, dd, concentration tests.	dd-ind: 5,527,443 at 40.87% Fe, 10.99% TiO_2 plus 1,051,000 at 25.67% Fe, 6.64% TiO_2 1953 (Que PR 455, p 8, 1961)	A magnetic concentrate contained 62.9% Fe, 4.2% Ti, 0.07% P_2O_5, 1.73% S.
QUE-114	IVRY MINE E. Latremouille (in 1969) 31 J/1 46°04'48" 74°22'06"	Several massive lenses of ilmenite and hematite in an area 1,000' x 130' of anorthosite of the Morin intrusive complex.	1910: opened up. 1912-18: mined and shipped 16,000 to produce ferrotitanium. 1926-27: test shipments. 1958: mined and shipped 36,000 for heavy aggregate; dd.	160,780 heavy aggregate (Que PR 495, p 8, 1962)	Material qualified as heavy aggregate if its specific gravity exceeded 4.3. Specimens of massive Ivry ore averaged about 42% Fe, 19% TiO_2.
QUE-115	TITANIUM DEVELOPMENT Titanium Dev Corp (in 1956) 31 J/1 46°04.6' 74°21.9'	N/A. Prob similar to Ivry's.	1948: rock trenching, dip needle survey. 1952: mag survey, dd. 1955-56: bulk sampling, metallurgical testing.	2,859,000 at 38.5% Fe, 30.84% TiO_2 to 300' plus 1,000,000 at 20-30% TiO_2, unstated Fe 1952 (NM 03/07/52; Que PR 495, p 8, 1962)	Results of metallurgical tests are not available. Resource calculation neglected interepersed waste material which would result in high dilution.
QUE-116	GRAPHEX Asbury Graphite Que Inc 31 J/4 46°08.7' 75°33.3'	Graphite disseminated in Grenville paragneiss in a body of 720' by 200-250'.	pre-1947: discovery, rock trenching. 1952: stripping, dd. 1966-68: evaluation, metallurgical testing, dd. 1974: o/p preparation. 1975: prod 200 tons conc at 85% C. 1981: minor prod.	proven: 500,000 at 10% C to 150' 1975 (Que DP-346(v), pt A, p 13, 1976)	
QUE-117	LAFONTAINE (NORZINC) Cominco L 31 J/4 46°07.0' 75°57.8'	Sph, po, gal in a Grenville calc-silicate rock. The Lafontaine deposit is at least 1,200' long, 4' wide and 40' deep.	1945: discovery. 1947-52: geoph surveys, rock trenching, dd, erection of 50-ton mill. 1953: small tonnage milled.	30,000 at 12% Zn to 40' 1953 (L Phelan 09/03/53 in Prospectus, Norzinc ML, 1953)	

QUE-118	LEITCH Sulpetro Mnrls L 31 J/4 46°07.8' 75°57.3'	Stratiform and metamorphosed shale-hosted type deposit of exhalative origin; in Grenville crystalline limestone.	1969-70: discovery, surface work. 1980-81: dd.	75,000 at 8% Zn 1980 (Que DPV-846, p 50 Addendum, 1981)	
QUE-119	ORRWELL (BOUTHILLIER) Orrwell Energy Corp L 31 J/5 46°21.6' 75°33.0'	Flake graphite in lenticular masses and veins in Grenville-type limestone. Main vein is 400' long, 20' wide, 400' deep.	1956: discovery. 1957: stripping, minor dd. 1981: 4,500' dd, bulk sampling and testing. 1982: further dd and testing.	dd-ind: 1,004,074 at 9% C (NM 6/05/82)	Test on 11,000 tons recovered 96.7% graphite of which 60-70% was flake variety. A promising new zone was discovered in 1982, some 2,000' N of the original deposit.
QUE-120	CAPRI Capri Mng Corp L 31 J/12 46°38.5' 75°55.3'	U-Th minerals associated with pegmatite in Grenville-type metasediments.	1954, 1968-72: rad surveys, trenching, sampling, dd.	c 1,000,000 at 0.5-1.0 lb/t U_3O_8 1969 (NM 18/11/75) or 9,000,000 at 0.42 lb/t U_3O_8 1970 (MIQ 1968-70, p 143)	
QUE-121	ALLIED MINING - LEMAN United Asb Inc (in 1973) 31 J/14 46°55.7' 75°05.2'	N/A. Prob similar to, but lower grade than, Axe Lake deposits.	1969: airborne and ground rad surveys, trenching, dd.	13,321,000 at 0.38 lb/t U_3O_8 including 3,386,500 at 0.55 lb/t U_3O_8 1970 (Allied Mng Corp, 1970 AR)	
QUE-122	AXE LAKE (MEKOOS GROUP) Johns-Manville Can Inc 31 J/14 46°54.7' 75°06.6'	Uraninite unevenly disseminated in biotite paragneiss, feldspathic qtzite and white metamorphic pegmatite. Th/U ratios do not exceed 0.1.	1968-69: airborne and ground rad and mag surveys, geochem survey, trenching, dd. 1971-80: dd, trench sampling, ground and airborne geoph surveys. 1981: dd.	180,000 at 0.79 lb/t U_3O_8 1969 (CMH 1979-80, p 151) or c 1,000,000 at c 1.2 lb/t U_3O_8 1969 (JB Sawyer 18/07/78, rept to Phoenix Electric Oil Refiners Can L)	Currently under option by Soquem.
QUE-123	TOM DICK Mont-Laurier Uranium Ms Inc 31 J/14 46°52.1' 75°08.9'	Thorian uraninite and uranothorite in biotite paragneiss, white metamorphic pegmatite and feldspathic qtzite. Th/U ratios vary between 1 and 2.	1969-74: airborne and ground rad surveys, trenching, bulk sampling, dd. 1978: ground rad survey, rock sampling.	1,530,000 at 1 lb/t U_3O_8 1971 (NM 26/08/71)	Explored by Soquem in 1980-81.
QUE-124	RENZY LAKE Renzy ML 31 K/15 46°48.9' 76°41.9'	Disseminated and massive po, cp, pn in peridotite. The main ore zone is U-shaped, extends 1,500' along axial direction and to 180' depth.	1955-56: geoph surveys, dd. metallurgical tests. 1965-66: IP survey, dd. 1969-72: o/p prod; 789,276 tons milled. 1973-74: operations resumed for one month, ceased after crushing plant was destroyed by fire.	1,331,816 prob and poss at 0.70% Ni, 0.70% Cu 1972 (CMH 1977-78, p 265)	Property under lease to Sheridan Geophysics until 1988. Planned resumption in late 1974 was reportedly delayed indefinitely by worsening prices and markets for Ni and Cu.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-125	NARCO Narco ML (in 1970) 31 L/10 46°35.6' 78°58.4'	Kyanite occurs in crystals averaging 2 cm in length within a Grenville muscovite-biotite-garnet-tourmaline schist.	1966-67: bulk sampling and testing. 1967-69: o/p mining and on-site test milling, dd.	3 to 200 million at 8-22% kyanite, 3-28% muscovite, 3-13% garnet plus biotite and qtz 1969 (Que GM-20543, 1967; Que GM-25541, 1969)	Widely divergent estimates. During test milling grade of kyanite was found to be at the lower end of the scale, insufficient to warrant exploitation, even with concomitant recoveries of garnet and muscovite.
QUE-126	MIDRIM Spindle Top Energy & Res Inc 31 M/6 47°28.3' 79°14.0'	Three mineralized lenses in gabbro, delimited between surface and 480' depth.	1964: prospecting. 1965: EM, IP, SP and mag surveys, dd. 1967-68: discovery of Midrim zone, geoph surveys, trenching, bulk sampling, dd. 1972: IP survey. 1977: re-evaluation. 1978: dd.	428,300 at 0.7% Cu, 0.46% Ni, $2/t Pt metals 1968 (NM 19/03/70) or 268,845 at 0.875% Cu, 0.639% Ni 1977 (R Kidd 12/04/77, rept to Royco Mng CL)	
QUE-127	WRIGHT MINE Patino Ms (Que) L (option in 1981) 31 M/6 47°25.4' 79°29.5'	A vertical breccia pipe, in Archean agglomerate, comprised of angular fragments of rhyolite and dacite cemented by calcite with argentiferous gal, some py, native Ag and qtz.	1686: shown by Indians to French explorers. c 1875: minor excavation and ore shipment by E.V. Wright. 1887, 90-91: shaft sunk with two levels, mill erected, small scale ore treatment and shipments. 1895-1903: shaft deepened to 350', two new levels, minor shipments. 1915, 25: dewatering, resampling 1948: dd. 1952: mine dewatered, u/g dd. 1970-72: EM, mag, IP surveys. 1980-81: geoph, dd.	75,900 recoverable and broken above 330' level plus 25,000 poss below, at 5% Pb, 1.8% Zn, 1.5 oz/t Ag 1952 (Que PR 330, p 39, 1956)	Patino dropped the option in 1981.
QUE-128	AUBELLE Hydra Expls L 31 M/7 47°24.2' 78°42.6'	Small and erratic ore shoots comprised of a series of qtz lenses, up to 200' long and 6' wide, in a fracture zone in tuffs and intrusive porphyry.	1944-47: surface work, dd 530' shaft with 3 levels and 3,600' lateral advance.	ind: 40,000 at 0.143 oz/t Au 1947 (CMH 1951, p 13)	Under option by Sulpetro Mnrls L in 1981.
QUE-129	KELLY LAKE Albany Energy Corp L 31 M/7 47°20.5' 78°52.0'	Po, cp, violarite, pn in a vertical zone 1,500' long by 30' wide at the contact between gabbro and rhyolite.	1928: trenching, sampling. 1948: dip needle survey, dd. 1952-53: dd. 1956-58: airborne and ground geoph, dd, metallurgical tests. 1964: dd. 1968-71: dd, feasibility study, metallurgical tests.	1,250,000 at 0.65% Cu, 0.59% Ni to 900' 1964 (NM 17/12/70)	A bulk sample of dd core averaged 0.77% Ni, 0.63% Cu, 0.12 oz/t Ag, 0.003 oz/t Au, 0.029 oz/t Pt.

QUE-130	LAKE EXPANSE Mentor Expls & Dev CL 31 M/7 47°28.7' 78°39.4'	Lenticular qtz veins.	1945: rock trenching, dd. 1950-52: Belleterre No. 5 shaft sunk, raise sampling above 175' level; trenching and sampling of North zone.	(i) Shaft zone raise: 110' x 3.6' at 0.377 oz/t Au; 60' x 3.1' at 0.356 oz/t Au (ii) North zone: 55' x 6.5' at 0.459 oz/t Au; 45' x 3.5' at 0.263 oz/t Au; 69' x 8.9' at 0.202 oz/t Au 1952 (Mentor Expls & Dev CL, 1975 AR)	
QUE-131	LETT LAKE New Blondeau Nickel ML 31 M/7 47°20.2' 78°53.6'	Cp, po, py as magmatic segregation in gabbro.	1956: mag survey, dd. 1957: mag-EM survey, dd. 1963-64: dd.	250,000 at 0.45% Ni, 0.45% Cu 1963 (Que GM-13740, 1963)	
QUE-132	GAGNE-DALLAIRE B Gagné (in 1976) 31 M/10 47°30.9' 78°44.3'	Two deposits close together at the rim of a 2 sq-mi ovel-shaped basic pluton. Magmatic segregation of disseminated py with lesser cp, po, pn, in amphibolite.	1958-60: mag-EM surveys, dd. 1961-62: IP, SP and mag surveys, dd. 1962-64: dd. 1967-72: geochem, mag and EM surveys, dd. 1976: dd. 1977: IP survey.	237,200 at 0.87% Ni, 0.42% Cu in 2 deposits 1967 (Vista Expls L Prospectus 1976)	Over 30,000' of drilling to date, together with geoph and geochem coverage, appears to have delimited the potential of these deposits.
QUE-133	LAMY Koizumi Group Inc 31 O/15 47°56.9' 74°37.1'	The deposit is tabular, 2,400' by 750' by 75' thick, apparently concordant with the enclosing low-dipping charnockitic gneiss and is probably intrusive in origin.	1971: surface work, dd.	11,250,000 at 70-85% phlogopite, 5% apatite c 1971 (Que GM-29704,-05,-06)	
QUE-134	BEDARD Marietta Res Intl L 31 O/16 47°57.3' 74°20.6'	The deposit is 2,800' long by up to 1,100' wide, by poss 600' deep, enclosed by a charnockitic gneiss which it probably intrudes. It is compact and uniform, containing 80-95% phlogopite, 4-8% pyroxene, 2-6% feldspar and minor apatite.	1960: discovery. 1961-63: stripping, trenching. 1963-69: dd, lab and pilot plant tests. 1973: deep dd, pilot plant operated. 1975: delamination plant erected in Boucherville. 1976: 35,000 mined by o/p. 1979: 62,000 mined.	30,000,000 at 80-95% phlogopite 1973 (Que DP-494, p 19, 1977)	The largest known high-grade mica deposit in the world. The mica is used as oil well drilling mud, in joint cement compounds, as reinforcing agent, as filler in plastics and as asbestos replacement. Intermittent small producer.
QUE-135	SUZORITE (SISCOE) Laviolette Mng & Metallurgical Corp 31 O/16 47°57.2' 74°22.2'	A steeply dipping deposit of coarse-grained phlogopite, 18% feldspar, 10% apatite, with lesser pyroxene, in charnockitic gneiss. Occurs as a lens 1,200' by 200' to 300'. Probably of intrusive origin.	1936: discovery. 1945: bulk sampling. 1946-48: o/p extraction and shipments.	c 1,000,000 at 65-70% phlogopite (MPS NMI est)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-136	LAC EDOUARD Soc Mnre d'Expl Somex ltée 31 P/9 47°39.5' 72°22.4'	The deposit occurs at the southern edge of a gabbroic mass enclosed by Grenville-type gneisses. Probably derived by magmatic segregation of sulphides.	pre-1969: discovery, surface work. 1970-71: dd. 1972-74: milled 63,333 Ni-Cu ore mined by o/p.	12,000 at 1.5% Ni, 0.5% Cu 1974 (Que DP-226, p 7, 1974)	Production ended when the mill was burnt in January 1974 and known ore was nearly exhausted.
QUE-137	CHASSEUR SUZORITE Provinces X Expls L 31 P/10 47°43.8' 72°41.2'	The deposit measures 800 m by 100 m. It apparently intrudes Grenville-type injection gneisses. It is composed of phlogopite 43%, tremolite 36%, feldspar 14%, and diopside 4%.	1960: discovery. 1973-75: trenching, bulk sampling and testing. 1978: dd. 1980-81: mag, EM and IP surveys, dd, bulk sampling, tests, feasibility study.	380,000 MT/VM at less than 50% phlogopite 1981 (Soquem 1980, 81 AR)	Tested in 1980-81 by Soquem which found the grade too low and dropped its option.
QUE-138	LAC BOUCHETTE Silinor Inc 32 A/8 48°18.0' 72°08.7'	Vein or lens of massive qtz in granite. The qtz itself is white and very pure, but the lens is contaminated by inclusions of granite.	Open-cast workings 1,000' long, with about 50,000 produced to date.	283,000 mt at 99.6% SiO_2 (Que est, 1979)	First produced silica in 1934, and intermittently since to 1974.
QUE-139	GOLDMASTER Goldmaster ML (in 1966) 32 B/13 48°57' 75°50'	Narrow mineralized qtz veins and veinlets in black cherty tuffs in a zone 60-100' wide and 2,000' long.	1949-51: discovery, resistivity survey, dd, shaft and lateral dev on 1 level. 1965: mag survey. 1966: dd.	180' x 8.3' at 0.108 oz/t Au 1950 (FP Surv Ms 1952, p 291)	Result of drift sampling on 125' level.
QUE-140	ABITIBI COPPER Abitibi Copper ML 32 C/3 48°05.0' 77°27.0'	Stratiform, volcanic exhalative deposit in acidic volcanics. Disseminated py and minor cp occur in two lenses between surface and 800'.	1950: geoph. 1951-52: dd. 1956-57: mag survey. 1962: mag survey, dd. 1965-70: deep and fill-in dd.	ind: 1,326,000 at 0.75% Cu plus low Au-Ag 1970 (CMH 1978-79, p 18)	
QUE-141	BEVCON-BUFFADISON Mid Canada Gold and Copper ML 32 C/3 48°05.8' 77°25.3'	Two main sets of Au-bearing veins with strikes perpendicular to one another and moderate dips. In a sheared/fractured zone near the northern edge of the Bevcon granodiorite plug. Two rich veins were also mined in the HW volcanics.	1931: prospecting. 1932, 36-39, 44-45: dd. 1946: Bevcon and Buffadison shafts sunk. 1947-65: ore shipments and since 1951 on-site milling of 3,493,243 from Bevcon, Buffadison and Lencourt sections. 1975: dd.	(i) Bevcon: 101,500 developed at 0.130 oz/t Au plus 814,000 dd-ind at 0.115 oz/t Au, above 2,200' 1965 (ii) Buffadison: 189,000 developed and dd-ind at 0.457 oz/t to 1,000' 1965 (VSE AL 84/80) or 250,000 at 0.11 oz/t Au, 0.23 oz/t Ag (CIM Reporter, 28/09/81)	Reopening of Bevcon-Buffadison considered late in 1979 at $6 million capital cost. Deepening of Buffadison shaft to 2,500' and exploring at 2,350' level was recommended.
QUE-142	BROSNAN Brosnan Ms L 32 C/3 48°06.8' 77°24.5'	Au in qtz-tourmaline veins filling flat-dipping fractures in a qtz-diorite sill.	1945-47, 50: mag survey, dd. 1962: mag survey. 1964: dd. 1976: EM survey. 1980-82: dd.	320,000 at 0.12 oz/t Au (Finance, 19/07/82)	The host diorite structure is open laterally at both ends for a total of at least 6,000'; to be tested by dd.

QUE-143	BRUELL-AURORA Bellechasse Mng Corp L (1979 option) 32 C/3 48°07.6' 77°17.5'	Gold with qtz and tourmaline, sparsely mineralized with sulphides, in silicified shears in volcanics near a boss of qtz albite porphyry.	1932: prospecting. 1934-37: rock trenching, sinking of 2 prospect shafts, dd, sampling. 1945-46, 63: dd. 1979: sampling, geoph survey. 1980: 4 ddh, EM survey.	(i) Discovery Vein: 43,800 at 0.23 oz/t Au in 700' x 3' x 200' (ii) No. 7 Vein: 125,000 at 0.11 oz/t Au in 430' x 10' x 350' (iii) No. 6 Vein: 13,300 at 0.12 oz/t (based on one ddh) 1937 (NM 04/11/37) (iv) Aurora: 500' x up to 30' at 0.21 oz/t Au c 1934 (NM 20/09/79)	Estimates are based on very limited drilling and surface sampling.
QUE-144	CHIMO MINE Soquem 32 C/3 48°00.7' 77°15.0'	Free gold with asp, po and qtz-carb in shears and fractures at the contact between a diorite sill and iron-formation. Currently estimated resources apparently occur in basalt, one quarter mile west of shaft.	1937-38: surface work, dd. 1945-47: mag survey, dd, discovery. 1948: preparations for shaft sinking. 1963-64: mag survey, dd. 1964-65: shaft sunk with 3 levels. 1966-67: shipped 141,900 at 0.40 oz/t Au to Bevcon mill. 1969: small ore shipment. 1980-81: dd. 1981-83: dewatering, u/g dd.	407,960 ind and 259,000 semi-ind, at 0.2 oz/t Au (25% dil) 1980 (Soquem, 3rd Quarter Rept, 1980-81) or 363,000 mt at 5.49 g/t Au 1981 (Que DPV-868, p 64, 1982)	Soquem optioned this property in 1978. Investigations included 27 ddh in 1980 on the deposit SW of the workings. Soquem spent more than $1 million by end of 1981 when development work was taken over by Louvem.
QUE-145	CROINOR-PERSHING Dominion Explorers L & Onaping Res L 32 C/3 48°06.5' 77°01.1'	Gold in qtz veins and veinlets in at least seven shoots conformable to a 200' wide sequence of sheared tuffs and mafic flows. The shoots average 500' in strike length, 200' down- plunge and 9.5' in diluted thickness. Deposit as a whole has a linear extent of 3,400', open along strike and below 500' depth.	1931-38: intermittent prospecting, trenching, dd. 1944: discovery of the main zone. 1944-45: dd. 1946-48: shaft sunk 644', lateral advance on 5 levels, surface and u/g dd. 1953: mag survey, dd. 1961: mag survey. 1972: mag and EM surveys, 6,800 shipped. 1974-75: re-evaluation, geoph survey. 1979-80: dd. 1981: 39,000' dd; 1,300' decline, u/g sampling.	mineable: 946,680 at 0.23 oz/t Au (0.10 oz/t cut-off) or 683,110 at 0.28 oz/t Au (0.16 oz/t cut-off) (both above: dil 29% at 0.03 oz/t, 4.5' min mng width, to avg 600' depth) plus inf: 283,895 at 0.22 oz/t Au (0.10 oz/t cut-off, dil) 1982 (Dominion Explorers L, 1981 AR) or 1,000,000 at 0.191 oz/t Au (undil) across 16' (Sullivan Mng Gp, Interim Rept 28/02/83)	An option to acquire a 50% working interest was acquired in 1983 by Sullivan Mng Gp L.
QUE-146	FORSAN (BLACK RIVER) Exxeter Res Corp 32 C/3 48°01.9' 77°10.1'	Gold, both free and associated with py, po, cp, asp, in a 2' thick qtz vein and smaller veins in and on either side of the contact between a qtz-feldspar porphyry dyke and agglomerate.	1936: discovery, trenching, sampling, dd. 1964-65: mag survey, dd. 1980: dd, geoph survey.	245,000 ind and 120,000 inf, at 0.157 oz/t Au, in 5 veins 1980 (Prospectus, Exxeter Res Corp, 26/06/80)	Tests had indicated an overall recovery of 96% Au by cyanidation.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-147 JOSEPH CLAIMS Mid Canada Gold and Copper ML 32 C/3 48°05.7' 77°26.7'	Disseminated cp, py, po and magnetite in the area of contact between intermediate volcanics and the Bevcon granodiorite.	1968-69: mag survey, dd.	dd-ind: 116,675 at 1.56% Cu 1969 (CMJ April 1970)	
QUE-148 REGCOURT Albany Oil & Gas L 32 C/3 48°05.7' 77°21.4'	Auriferous qtz veins containing py and tourmaline in a fractured, silicified and carbonatized granodiorite.	1937: geoph survey, trenching. 1944-46: dd. 1947-48: shaft sunk with 3 levels. 1948: dd. 1981: geoph, dd.	220' x 2.5' at 0.24 oz/t Au 1948 (Que SP-2, p 263, 1967)	The values were obtained in drift sampling. 1980: 70% interest in property optioned by Crackingstone ML.
QUE-149 VAUQUELIN (NORDEAU) Vauquelin Iron ML 32 C/3 48°00.2' 77°12.2'	Three parallel gold-bearing lenses occur south of magnetite iron-formation, in sediments or volcanics. The zone is on the east extension of the Chimo mine zone.	1946: mag and geol surveys. 1947: dd. 1957-58: dd, beneficiation tests for iron. 1962: dd. 1965: EM survey. 1980-82: dd.	200,000 at 0.16 oz/t Au 1982 (F Dubuc, oral 10/03/83)	Drilling has also indicated 100 million tons at 25% Fe in two zones in the vicinity. Soquem holds the property under option since 1979.
QUE-150 VIANOR (WOOD) R. Rainville (in 1968) 32 C/3 48°15.0' 77°14.0'	Stockworks of qtz veins in granodiorite of the Pascalis-Tiblemont batholith. Qtz diminishes in volume with depth.	1932-33: discovery, rock trenching, dd. 1934-35: shaft sunk 117' with 1,600' lateral advance on 100' level. 1936: small amalgam mill testing. 1952-55: limited dd.	20,000 at 0.43 oz/t Au to 80' 1936 (NM 15/10/36)	
QUE-151 VICOUR Sigma Ms (Que) L (70%) Que. Gold Belt ML (30%) 32 C/3 48°04.1' 77°27.6'	Gold associated with minor py, po, asp, cp and tourmaline in numerous small qtz veins and lenses, contained in a vertical, 300' thick zone in a granodiorite phase comprising the south margin of a 1,200' thick diorite sill complex.	c 1924: prospecting. 1932: staked, trenching. 1933: dd. 1935: shaft sunk, lateral advances on first level. 1937-42: shaft deepened to 475' with work on three levels, dd. 1945-46: dd. 1968-69, 1971: geoph surveys, dd under option by McIntyre Porcupine ML. 1980-81: geoph, dd. 1982: bulk sample tests.	prob: 600,000 at 0.087 oz/t Au (with dil) 1982 (Sigma Ms (Que) L, 1982 AR)	A 15,000 ton sample milled at Sigma in 1982 gave good recoveries. Regular shipments may start in 1985.
QUE-152 AKASABA Soquem 32 C/4 48°02.8' 77°33.9'	Au with dis sulphs in chloritized amphibolitic diorite and flows.	1928: discovery. 1929, 42: dd. 1944-45: mag, dd. 1951-52: shaft sunk 321', advance on 2 L's, dd. 1959: u/g dev. 1960-63: shipped 289,428 at 0.15 oz/t Au to Bevcon. 1979-82: geoph, dd.	400,000 at 0.15 oz/t Au across 10' 1982 (Soquem 1st Quarter Rept, 1982-83)	The resource is contained in four shoots, including pillars of the old mine.

QUE-153	AMLARTIC G J Callahan (in 1975) 32 C/4 48°09'04" 77°58'23"	Auriferous veinlets in a feldspar porphyry sill or dyke cutting rocks of the Malartic Group.	1945-47: 24,735' dd; two submarginal Au zones explored. 1974-75: mag survey, 6 ddh by Cdn Malartic outlined the new zone.	300,000 at 0.09 oz/t Au 1975 (Cdn Malartic GML, 1975 AR)	Resource determined for a block of 400' x 16' x 500' deep. Cdn Malartic dropped its option in 1975 because of the low grade.
QUE-154	BEACON D'Or Val ML 32 C/4 48°06.4' 77°33.0' (Beacon Vein)	LeRoy Vein consists of a zone of pyritic qtz-tourmaline veins and stringers 700' long, up to 6' wide, extending 300' down-dip. A series of gold-bearing veins, including the Discovery and Arrow, were discovered some 500' N of LeRoy shaft in 1981. Beacon Vein is comprised of one large qtz lens and stringers associated with tourmaline, py, cp and occurring between 200' and 400' depths. Beacon and LeRoy veins are in granodiorite. The copper zone consists of sulphides in a chloritized dacitic fragmental.	1930-34: discovery, 269' shaft and advance on 2 levels, dd - LeRoy Vein. 1937-41: dd, LeRoy u/g workings advanced, resampled. 1947: dd, discovery of Beacon Vein. 1950-51: 420' shaft on Beacon Vein, dev on 4 levels. 1951: geoph survey, dd. 1968-69: IP, SP, EM surveys, dd, discovery of the copper zone. 1980: dd, EM survey, dewatering of Beacon shaft; 6,632 shipped from stockpile. 1981-83: dd, declines driven on Beacon and Discovery deposits.	(i) LeRoy Vein: 44,186 at 0.139 oz/t Au 1982 (ii) Arrow Vein: 4,800 at 0.450 oz/t Au 1982 (iii) Discovery Vein: 263,000 at 0.20 oz/t Au 1982 (iv) Beacon Vein: 68,725 at 0.148 oz/t Au 1982 (v) Copper (E) Zone: 150,000 at 1.75% Cu 1969 (GCNL No 35, 21/02/83)	Some 14,000 tons were shipped in 1981-82.
QUE-155	BEAUFOR Courvan Mng CL 32 C/4 48°09.5' 77°33.3'	Mineralized qtz veins filling fractured and sheared granodiorite at the eastern margin of the Bourlamaque batholith.	1931: discovery, dd. 1932-35: inclined shaft with 2 levels, dd. 1935-36: u/g workings extended into Beaufor from the Perron mine, shaft sunk. 1939-42: prod 177,000 t at 0.20 oz/t Au. 1945-46: surface and u/g dd. 1949-51: u/g workings extended from Perron on 825' and 1,375' levels, dd u/g.	50,000 at 0.21 oz/t Au below 625' level 1951 (Que Fiche: V-Pas-2, 1975)	Resource estimate is for the down-dip extension of Perron mine's No. 32 Vein.
QUE-156	BOUNTY (AUMAQUE) Gulfstream Res Can L 32 C/4 48°05.3' 77°43.3'	Gold occurs in narrow massive sulphide veins and to a lesser extent in adjoining qtz veins. The zone with ore values is 4' to 6' wide and apparently occupies a shear in siliceous pyroclastics.	1933-34, 36, 44: dd. 1945-47: shaft and winze, advance on 5 levels, dd. 1960: mag survey, dd. 1964: dd. 1966: IP survey, dd.	poss: 199,400 at 0.25 oz/t Au 1947 (Aumaque GML 22/04/49 letter to shareholders)	Optioned to Eastmaque GML.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-157 COURVAN Courvan Mng CL 32 C/4 48°08.0' 77°32.4'	In the mine a number of auriferous pyritic qtz vein zones occur in sheared and fractured granodiorite at the eastern margin of the Bourlamaque batholith. Southwest Gold is another such zone SW of mine workings. Cross-fibre chrysotile in reticulating joints occurs in two zones in an isolated body of peridotite.	1930-31: pits, dd, shaft started. 1932-35, 37-42: prod 310,000 at 0.12 oz/t Au from shaft with 5 levels. Operations closed after a fire. 1945-46, 63-64: dd of Southwest Gold zone. 1952, 56-57: dd of Asbestos zones. 1980: dd of SW Au zone.	(i) Mine (mainly Creek Zone): 340,000 at 0.121 oz/t Au across 4.3' 1942 (ii) Asbestos Zones: 4,070,000 at 2.5% asb in 3 zones 1956 (Que Fiche: V-Lou-4, 1975) (iii) Southwest Gold: 110,900 geol reserves at 0.15 oz/t Au across true 7.3' to 500' 1980 (NM 23/10/80)	Sullivan Mng Gp L owns 56% of Courvan Mng CL. Property optioned to Soquem in 1981.
QUE-158 DUMONT BOURLAMAQUE Mid Canada Gold and Copper ML 32 C/4 48°02.4' 77°42.7'	South zone occurs as veins in a brecciated andesite with mag and disseminated py, po, cp. It is pipe-shaped, occurring at depths from 100' to 400'. North zone is volcano-exhalative disseminated po, py, cp in andesite.	1932-69: trenching, limited dd, geoph. 1969: acquired by Dumont, delineation by dd of North and South zones. 1973: dd. 1980-82: decline driven on South zone to 350'L with ore shipments and stockpiling.	(i) North zone: 120,700 ind and inf to 100' and/or (?) 784,500 poss to 650', at 1.00% Cu, 0.112 oz/t Au 1979 (Mid Canada G & Copper ML, VSE AL 84/80, 1980) (ii) South zone: N/A Au 1982	Small tonnage of gold ore was shipped in 1980-81 and 27,000 at 0.15 oz/t Au left stockpiled when operations were discontinued in 1982.
QUE-159 DUNRAINE Soquem 32 C/4 48°04.4' 77°34.2' (No 4 Zone)	The Dunraine copper deposits occur in acid pyroclastics and are thought to be of volcano-exhalative origin. They consist of massive to disseminated cp, sph and py. The East Au deposit is a ladder system of low-dipping qtz-tourmaline-pyrite veins in a small sill of granodiorite.	1932: trenchings Nos 2 and 3 zones. 1937: dd, discovery of No 4 zone. 1942-55: dd of 206 holes. 1951-55: shaft sunk 730' with dev on 5 levels on No 4 zone. 1956-58: prod Cu, Au, Ag from 280,768 in No 4 zone. Shaft sunk 1,135' and dev on 7 levels on No 2 West zone. 1959: dd of No 2 zone. 1960: u/g dev on No 2 West zone. 1964-69, 73-74: mag, IP, EM and geochem surveys, dd. 1978-81: geoph, dd.	(i) No 2 West: 740,000 at 1.13% Cu 1960 (ii) No 2: 1,000,000 at 1.0% Cu 1959 (iii) No 3: 1,200,000 at 1.3% Cu 1959 ? (Que DP-367(v), p 74, 1976) (iv) No 4: 121,800 at 1.50% Cu after dilution 1958 (FP Corp Serv, Rainville ML 24/08/60) (v) East Au: 900' x 4.2' ind by 5 ddh at 0.61 oz/t Au (uncut) 1952 (J M Thompson 04/12/52 in Prospectus, Rainville Copper ML, 1953)	In 1978 the property was purchased by Soquem, which had done the work, under option, in 1973-74.
QUE-160 EAST SULLIVAN Nugold Enterprises Corp 32 C/4 48°04.3' 77°42.5'	Au with qtz, sericite, carbonates, tourmaline and minor sulphs in a shear in Centre Post syenitic stock. The Cu-Zn orebodies occurred as massive sulph lenses of volcano-exhalative origin in pyroclastics.	1944-45: discovery of Cu-Zn orebodies. 1949-66: prod 156,000 tons Cu, 80,000 tons Zn, 3.5 mil. oz Ag, 114,000 oz Au, 19,000 ltpy from 16.5 mil. tons milled. 1950: discovery of Au zone 3,000' east of shaft by surface dd.	100,000 at 0.19 oz/t Au 1981 (CMH 1982-83, p 258)	Negotiating with other companies in 1982 to finance further dev work.

			1950-51: crosscut to Au zone on 1,050' L and dd u/g. 1958: 3 ddh from surface. 1981: mag, EM, 4 ddh.		
QUE-161	GOLDEX (PROBE-DALTON) Goldex ML 32 C/4 48°05.4' 77°52.0'	Sheared and fractured granodiorite sill filled by veinlets of mineralized qtz.	1930's: surface work. pre-1957: minor dd. 1963-66, 68-69: dd. 1972: decline advanced 2,400'. 1973-75: u/g dd; bulk sample testing. 1980: shipped 6,460 from stockpile.	873,000 at 0.288 oz/t Au in Probe section 1969 (CMH 1977-78, p 130)	Test shipments of 34,494 had an average recovered grade of only 0.08 oz/t Au, much below the grade indicated by drilling. Open pit extraction may eventually be feasible. No resource estimate has been published for the Dalton section, a SE extension of Probe.
QUE-162	HARRICANA Provinces X Explns L 32 C/4 48°06.5' 77°47.0'	The principal gold-bearing qtz vein occurs in a dyke of feldspar porphyry between 200' and 300' levels.	1934-35: Au discovered by dd, pits sunk. 1936: dd. 1937-38: shaft sunk, advance on 3 levels, dd. 1944-45: mag survey, dd. 1946: shaft deepened to 780' with work on 4 new levels, dd. 1980-81: dd, EM and mag survey.	25-30,000 at 0.26-0.28 oz/t Au 1938 (NM 25/05/44) or ind: 66,000 at 0.16 oz/t Au in 2 shoots 1980 (NM 09/04/81)	Located within Val d'Or city limits. E&B Explns L optioned the property in 1981.
QUE-163	JOUBI Joubi Mng Corp L (in 1974) 32 C/4 48°05.0' 77°50.8'	Gold-bearing qtz veins in a sheared zone in andesite. Resource estimate comprises three parallel shoots in an area 400' long, 60' wide and 500' deep.	1914: prospect shaft. 1934: dd. 1941-45: dd. 1964: mag survey. 1973-74: dd. 1981-83: dd.	151,700 at 0.242 oz/t Au 1974 (Joubi Mng Corp L 04/06/74, letter to shareholders)	The resource estimate is based entirely on drilling. Recent drilling has reportedly extended the zone westward.
QUE-164	KIENA Kiena GML 32 C/4 48°07.2' 77°54.9'	Zones of shearing and brecciation in basic volcanics filled by gold-bearing qtz.	1919-30: first discoveries, trenching, dd. 1934-35: dd. 1936-37: u/g dev in Kiena and Wisik sections. 1938: North zone found by dd. 1939-41: u/g dev at Kiena, dd. 1961-62: dd, discovery of Main Zone in Kiena section. 1963-65: new shaft sunk on Main Zone on Parker I to 1,324' with advance and dd on 8 levels. Bulk samples shipped for testing. 1979: shaft dewatered in preparation for prod. 1981: prod starts from Main zone, ore shipped to Lamaque.	(i) North Zone: 500,000 at 0.14 oz/t Au 1941 (NM 19/12/63) (ii) Actinolite Zone: 8,000 at 0.23 oz/t Au 1937 (Que Fiche: V-Dub-4) (iii) Wisik Vein, 300' L: 365' x 5.75' at 0.10 oz/t Au, 93' x 8.7' at 0.45 oz/t Au, 26' x 8.5' at 0.30 oz/t Au 1937 (Que PR 120, p 13, 1938)	These zones underlie islands and waters of Lac de Montigny. Parker I is connected with the mainland by a causeway. Falconbridge L owns 68% of Kiena GML who began production from its Main zone in 1981.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-165 LAMAQUE NO 4 PLUG Teck Corp 32 C/4 48°05.0' 77°44.1'	Gold-bearing qtz veins occupy fractures in a porphyritic granodiorite boss, 400' x 600' in cross-section, intruding volcanics.	1959-60: No 4 Plug disclosed by ground mag survey. 1961-67: cross-cut extended from No 3 mine on 700' level; prod 150,000 at 0.154 oz/t Au from No 4 Plug.	250-280,000 at unstated Au grade 1979 (NM 18/10/79)	No 4 Plug is located 1.5 mi SE of Lamaque's Main Plug and 0.5 mi SE of No 3 mine, at the SE corner of the Lamaque mine property. Capital cost requirements are $12 million, to sink a 2,600' shaft and for other pre-production facilities, as estimated late 1979.
QUE-166 LOUVEM Louvem Mng Co Inc 32 C/4 48°05.9' 77°31.0'	Mass sulph lenses of volcanoexhalative origin occur in pyroclastics at intervals over a distance of 4,500'.	1968: discovery by dd of Turam conductor. 1970-78, 80-81: prod 2 mil. tons from Cu-rich and Zn-rich lenses.	prov & prob: 212,520 at 6.30% Zn, 0.29% Cu, 0.12% Pb, 1.37 oz/t Ag, 0.036 oz/t Au 31/12/80 (MPS MR 191, 1982)	Low metal prices, occurrence of ore in separate small lenses, lower grade, poor recovery and higher costs of production all contributed to the decision to shut down.
QUE-167 MALARTIC GOLD FIELDS Goldstack Res L 32 C/4, D/1 48°06.7' 78°00.0'	Gold in qtz stringers in masses of diorite, roughly conformable with schistosity of the containing subsidiary zones of the Cadillac break. Lower grade orebodies were also mined in dykes of syenite porphyry.	1936-38: dd. 1939-62: prod 1,700,000 oz Au, minor Ag, from 9,874,175 t milled from 2 mines with extensive workings to 2,750' depth. 1974: dd. 1981-82: dd.	130,075 ind at 0.22 oz/t Au in South Briar Zone and 626,340 inf at 0.18 oz/t Au in several zones (incl 214,000 at 0.15 oz/t in Apex Zone) 1982 (NM 14/10/82)	North Briar Zone, which may be accessible from workings of No. 2 shaft, forms part of the inferred T-G and is thought to have the best potential. South Briar zone is outside old workings area and known from surface dd only. There is some possibility that Apex zone had been mined wholly or in part.
QUE-168 MANITOU-BARVUE Louvem Mng Co Inc 32 C/4 48°05.2' 77°36.6'	The deposits are volcanogenic. The Zn-Ag zone occurs at the top of a pyroclastic pile, in rhyolitic fragmentals. Abundant to massive py occurs with sph, minor gal and other mnrl. The Cu zone occurs in a pipe-like structure containing cp veinlets in rhyolite. The same	1923: Cu zone discovered. 1926-29: trenching, minor dd, discovery of Zn zone. 1937: dd. 1938: shaft sunk with advance on 2 levels. 1940: u/g resampling and dd. 1941: shaft deepening; pre-prod dev.	(i) Zinc-silver: c 100,000 at unstated Zn-Ag grade 1979 (Que DPV-737, p 66, 1980) (ii) Copper: 99,260 at 1.11% Cu, 0.01 oz/t Au, 0.13 oz/t Ag 1970 (Que DP-367(v), p 92, 1976)	The Manitou-Barvue mill treats custom ore from other mines of the district.

		pipe may have served as feeder for the Zn-Ag deposit.	1942-79: prod 8,360,000 Zn-Ag-Pb ore and 4,012,000 Cu ore, yielding c 335,000 tons Zn, 36,000 tons Cu, 26,000 tons Pb, 21,000,000 oz Ag and 300,000 oz Au.		
QUE-169	MINE SCHOOL Sigma M (Que) L 32 C/4 48°06.0' 77°52.4'	Mineralized qtz veins filling fractures in andesite.	1912-19: trenches and pits. 1932: dd. 1935-37: shaft, work on 2 levels. 1937: acquired by Que government. 1938-42: operated as Provincial Mine School to train miners, 2 new levels developed, minor prod; surface ore dressing plant treated custom shipments 1940-56.	12,480 at 0.17 oz/t Au 1942 (Que RP 182, p 26, 1943)	Calculated resources comprise 4 separate shoots developed on 3 levels.
QUE-170	NEW BIDLAMAQUE New Bidlamaque GML 32 C/4 48°06.7' 78°42.0'	Min. occurs in a WNW shear in brecciated and siliceous lavas. At least two veins containing Cu and Au occur in a length of 550' and width of 5.2'.	1936-38: discovery, dd. 1944-45: dd. 1945-46: shaft sunk 390' with 2,000' lateral advance on three levels, dd, mag and resistivity surveys. 1949, 56, 70-71: geoph, dd. 1983: dd.	213,192 mt at 1.2% Cu, 5.8 g/mt Au 1970 ? (Que Map 32 C/4-0203, DP-624, 1977)	Under option by Dufresnoy, Soc. d'Expln Mnre Inc.
QUE-171	NORLARTIC Brominco Inc (Main Zone) First Cdn Gold Corp Inc (SW Zone) 32 C/4 48°08.9' 77°59.4'	In the Main zone, a granodiorite dyke, intruded along a shear (Norlartic break), has been fractured and filled by gold-bearing veinlets and stringers. It was mined down to 1,000'. The Southwest zone, parallel and 2,000' SW of the Main zone, occurs apparently in peridotite, possibly an extension of the Marban mine zone.	1943-46: dd. 1946-48: shaft sunk 540', workings extended on 4 levels, dd. 1950-51: u/g dev. 1958-59: shaft deepened to 1,050', 4 new levels, preprod dev on upper levels. 1959-66: prod 145,610 oz Au, 15,189 oz Ag from 1,139,443 milled. 1974: dd. 1980-81: dd, mag-EM.	(i) Main zone: 1,300,000 inf at 0.11 oz/t Au to 1,300' (incl 50,000 at 0.15) 1980 (Brominco Inc, 1981 AR) (ii) Southwest zone: 500' x 2.6' dd-ind at 0.133 oz/t Au 1966 (Que Fiche: V-Vas-1)	
QUE-172	NORTH SISCOE Sullivan Mng Gp L 32 C/4 48°09.2' 77°50.8'	Erratic zones of gold in qtz veins. On the first level, in chloritic and talcose shears; on the second level in schist and diorite; in granite porphyry on both levels.	1929: electric survey. 1930: dd. 1933-34: shaft to 376', lateral advance on 350' level. 1936-38: shaft deepened to 750', advance and sampling on 350' and 725' levels, dd. 1945: shaft dewatered, preprod work started on 3 zones.	(i) 350' Level: 86' x 32.4" at 0.21 oz/t Au; 65' x 36.3" at 0.35 oz/t Au; 85' x 25.0" at 0.33 oz/t Au. (ii) 725' Level: 30' x 46" at 0.18 oz/t Au; 100' x 26" at 0.49 oz/t Au; 75' x 25" at 0.18 oz/t Au 1938 (Globe & Mail 28/05/38)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-173	ORENADA Brominco Inc 32 C/4 48°03.0' 77°42.8'	No 4 zone has been described as a pipe-like deposit in a chlorite schist intruded by a body of porphyry and cut by qtz-sep-py-tourmaline veins. The Porphyry zone, consisting of cp in fractures, occurs mainly in volcanics near the contact with a syenite stock.	1923-78: trenches, pits; 120,000' dd, various geoph surveys; No 4 and Porphyry zones each tested by at least 20 ddhs. 1981: mined by o/p and milled (at Lamaque) 18,500 mt at 1.8 g/t from No. 4.	(i) No 4: c 325,000 at c. 0.08 oz/t Au with 20% dil to 240' (NM 23/10/80) (ii) Orenada-Ducros Porphyry Zone: several million at 0.2% Cu plus Mo 1973 (NM 16/05/74)	
QUE-174	PASCALIS New Pascalis ML 32 C/4 48°09.4' 77°33.1'	Mineralized qtz veins filling fractures and shears at the eastern margin of the Bourlamaque batholith.	1932: trenching, dd. 1936: dd. 1938-39: workings advanced from Perron mine's 175' and 625' levels, dd. 1940-42: shaft sunk 1,565' with 6 levels, dev and dd on lower levels. 1959, 63-65: dd. 1974: geoph surveys. 1981-83: geoph, dd.	pot: 165,000 at 0.20 oz/t Au in shaft area 1941 ? (New Pascalis ML, 1978 AR)	Soquem optioned the property in 1981 and discovered two new Au zones SE of the shaft by dd in 1982. One intersection ran 0.2 oz/t Au over 268' of core. Falconbridge L holds 61.3% interest in New Pascalis ML.
QUE-175	QUEBEC EXPLORERS Que Explorers Corp L 32 C/4 48°05.1' 77°53.8'	Gold-qtz veins fill fractured diorite and feldspar porphyry dykes intruding the Cadillac fault zone.	1940, 63-66: dd. 1969: mag, EM, dd. 1972-74, 79-80: dd. 1981-82: 2,259' decline driven with 1,400' drifting on 340' L, dd.	1,195,763 at 0.134 oz/t Au 1980 (NM 12/02/81)	
QUE-176	QUEBEC MANITOU Wrightbar ML 32 C/4 48°05.5' 77°35.1'	Volcanic-exhalative sulphide deposit containing disseminations and massive veinlets of cp, sph, py in a series of en échelon lenses within a zone 1,800' long.	1965: discovery while blasting a hydro line right-of-way. 1965-69: dd.	763,254 at 1.26% Cu, 0.10 oz/t Ag, 0.002 oz/t Au 1967 (CMH 1977-78, p 261)	
QUE-177	RESENOR (SENORE) El Coco Expls L 32 C/4 48°10.4' 77°33.5'	Gold in qtz veins filling shears and fractures in granodiorite near the east margin of the Bourlamaque batholith.	1936-37: dd. 1939-41: shaft to 500' with 3 levels, dd. 1945-48: u/g dev resumed, dd, mag survey. 1959: dd. 1974: mag survey, dd. 1977: EM, geochem, dd.	200,000 at 0.25 oz/t Au 1977 (El Coco Expls L, VSE SMF 06/07/78)	
QUE-178	SULLIVAN MINE Provincee X Explns L 32 C/4 48°07.7' 77°50.3'	Mineralized qtz veins filling shears and fractures in granodiorite of the Bourlamaque batholith.	1911: discovery, first in Val d'Or area. 1911-20: trenching, test pits. 1929-30: u/g dev on two levels. 1932-33: u/g dev. 1934-68: prod 5,085,518 at 0.233 oz/t Au, 0.072 oz/t Ag from workings on 28 levels.	344,000 at 0.218 oz/t Au 1968 (Que Fiche: V-Dub-1, 1975)	In 1980, mag-EM surveys and 3 ddh completed. Re-evaluation work in 1981.

QUE-179	WESTERN QUEBEC Wesdome Res L 32 C/4 48°09.5' 77°54.2'	'A' zone consists of qtz-py veins in a 5-20' wide shear in diorite.	1933-34: dd on NW extension of Siscoe K Zone. 1936: dd. 1936-39: shaft sunk 343' and 3,600' lateral work on 300' level, dd. 1941: mag survey, dd, workings dewatered, minor advance and dd u/g. 1942-48, 64-65: mag survey, dd. 1970: mag, EM and IP surveys, dd. 1974-76: VLF-EM survey, dd. 1979-83: dd.	inf & ind by dd: 798,087 at 0.135 oz/t Au (diluted) 1980 Above include 698,137 at 0.135 oz/t to 900' in 'A' zone, 76,730 at 0.129 oz/t in 'B' zone, and the rest in 'C' and 'D' zones. (NM 31/08/80) or 900,000 at 0.14 oz/t Au 1982 (NM 7/04/83)	Most of the ground underlines the waters of Lac de Montigny north of the Kiena, and west of the Siscoe mines. The shaft is located on a small island. The property was investigated by Dome, first in 1974 under option, exercised in 1979 by incorporating a private company, Wesdome Res L (Dome 70%, Western Quebec Mines CL 30%).
QUE-180	BARVALLEE Ms d'Argent Abcourt Inc 32 C/5 48°25.7' 77°40.7'	Stratiform volcano-exhalative py-po-sph-cp deposit in acidic tuffs, consisting of 3 principal en échelon lenses in a zone 400' long, up to 25' wide, 400' deep.	1951-52: dd. 1956-57: dd, discovery.	dd-ind: 216,500 at 5.71% Zn, 1.23% Cu, 1.42 oz/t Ag 1957 (Que PR 406, p 10, 1959)	
QUE-181	BELFORT (ROYMONT) Ms Vendome Inc 32 C/5 48°25.8' 77°40.9'	Disseminated to massive py, po, sph, cp, gal in lenses in acid tuffs and agglomerates, between depths of 450' to 700'. Stratiform deposit of volcano-exhalative origin, the westernmost segment of the Vendome-Barvallée-Belfort zone (3,000' long).	1952: mag survey, dd, discovery. 1953-58: dd.	dd-ind: 250,000 at 7.00% Zn, 0.61 oz/t Ag, 0.011 oz/t Au, 0.21% Cu, 0.12% Pb 1958 (Que PR 529, p 4, 1964)	
QUE-182	CONS MOGADOR Cons Mogador ML 32 C/5 48°24.7' 77°41.4'	Magmatic segregation of po, pn, py, cp in the metagabbroic basal member of a differentiated basic intrusive complex. The deposit is 300-400' long at the surface, 500' at 950' depth, and is 150' wide. It carries minor Co, Ag and Pt metal values in addition to Ni-Cu.	1960-61: mag, EM, SP, geochem surveys, dd. 1962-65, 67-69: dd.	350,000 at 0.82% Ni, 0.68% Cu to 1,200' or 500 f/VF to 600' 1965 (Que Fiche: V-Fie-1, 1975)	The tonnage-grade figures were roughly (grossièrement) estimated from drilling data. Further development is required to produce a firmer estimate.
QUE-183	FISHER Northern Que Explorers L 32 C/5 48°29.4' 77°47.4'	A sheared and carbonatized zone in intermediate to basic volcanics contains qtz lenses and stringers with gold values in a length of 2,000'.	1924-25: discovery, pits, trenches. 1926-28: shaft sunk 215' with 615' lateral advance on one level, dd. 1947: surface sampling. 1964: dd. 1971: mag survey.	50,000 at 0.22 oz/t Au 1964 (NM 20/07/72)	Nearby Randall 'mine', partly developed on 5 levels, was reported to contain 620,000 at 0.20 oz/t Au (NM 12/07/37), but subsequent work appears to have discredited this estimate. Optioned to private ints. 1981.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-184	MASSBERYL Mo Morono Ltée 32 C/5 48°23.3' 77°56.6'	Pegmatites, composed of perthite, qtz, plagioclase, muscovite and beryl, essentially in tabular bodies, occur within leucoadamellite phase of the Preissac-Lacorne batholith.	pre-1948: discovery, pits. 1955: pits, trenches, dd. 1969-70: dd. 1972: stripping, bulk sampling, beneficiation tests.	667 T/VF at 1.35% beryl plus feldspar, muscovite 1971 (NM 01701/71)	The beryl is stated to contain 11.9% BeO. In 1974 Morono acquired the plant of Molybdenite Corp of Can L, which, when refurbished, was to treat the beryl-feldspar-mica material. A 150 tpd prospective operation.
QUE-185	QUEBEC LITHIUM Sullivan Mng Gp L 32 C/5 48°24.8' 77°48.8'	Numerous subparallel spodumene-bearing pegmatite dykes cut amphibolitized volcanics and granodiorite comprising a NE protrusion of the Preissac-Lacorne batholith.	1940-52: stripping, trenching, dd. 1954: shaft sunk with 4 levels. 1955-66: prod 1,000,000 at 1.4% Li_2O in 1,000 tpd mill, chemical Li refinery and Li hydroxide monohydrate plant erected 1960-61. 1973-77: pilot plant studies at Centre de Recherches Minérales.	20,000,000 at 1.3% Li_2O to 500' 1966 (CMH 1979-80, p 266)	A continuous process for the production of lithium carbonate, developed and tested on Que Lithium's ore, is said to be superior to the batch process previously used at the mine plant. It was decided not to reopen after a market study in 1978-79.
QUE-186	VENDOME (MOGADOR) Mo d'Argent Abcourt Inc 32 C/5 48°25.4' 77°39.7'	Stratiform sulphide deposit, in acid pyroclastics, derived by volcanic exhalation. Massive to disseminated py, po, sph, cp, gal are in en échelon lenses, of which the two largest are 950' long by 13.3' wide and 550' by 9.3'. Most of the resource is concentrated between 215' and 595' depths, but mineralization is known to extend at least to 1,000'.	1946-53: prospecting, geoph surveys, dd. 1954-57: shaft to 525' with 7,000' of drifts, crosscuts and raises on 3 levels, u/g dd. 1972-75: geoph and geochem surveys, deep dd, re-evaluation.	935,000 proven and 186,000 ind at 7.3% Zn, 0.47% Cu, 0.34% Pb, 1.63 oz/t Ag, 0.034 oz/t Au to 500', plus 100,000 dd-ind at 1% Cu between 500' and 625' 1954 (CIM Bull, v 53, p 274, 1960) or 700,000 at 7.1% Zn, 0.44% Cu, 1.52 oz/t Ag, 0.032 oz/t Au above 600' 1974 (CMH 1978-79, p 303)	The zinc deposit contains approximately 0.15% Cd. A railroad and a hydro transmission line pass within 1.5 mi of the deposit.
QUE-187	VENUS East Coast Pipeline L 32 C/5 48°27'54" 77°43'15"	Veins, lenses and stringer zones of qtz with tourmaline, py and minor cp in basic volcanics.	1925-32: two shafts 200' deep with 4,000' lateral workings, dd, test mill operated 1931. 1945-46: geoph, dd. 1982: bulk sampling, dd.	50,000 at 0.26 oz/t Au (after dil) 1946 (Bar-Lan GML, 1951 AR)	The estimated resource is the total from two separate but similar vein zones, 4,000' apart. Under option by Chabela ML in 1982.

QUE-188	CARPENTIER PYRO-PHYLLITE Mareest Expls L 32 C/6, 11 48°30.0' 77°27.6'	North and South zones are short drilled-off segments, 7,000' apart, of a continuous alteration zone, along a major shear zone in tuffs, averaging 150' in thickness. It consists of a number of sub-zones containing variable amounts of pyrophyllite, qtz, chloritoid and pinite.	1945: dd. 1958: EM survey. 1962: mag, EM surveys. 1964: dd. 1965-66: dd of pyrophyllite by Domtar. 1970-72: mag surveys, chemical and petrographic analyses, dd.	2,440,000 at 40% pyrophyllite in North and South zones 1964 (M Tremblay, paper read at CIM Ann Mtg, 1977)	There is large potential tonnage between and beyond the North and South zones, which are short segments of the same zone at least 8,000' long. Work done prior to 1965 was done in search of gold and base metals in close vicinity to, or in, the pyrophyllite zone.
QUE-189	PERSHING MANITOU Soc Mnre Pershing-Manitou Ltée 32 C/6 48°22.3' 77°27.1'	Gold-bearing qtz-tourmaline veins with py, cp in a fracture zone in diorite.	1937-38: discovery, trenching, dip needle survey, dd. 1941-46: shaft to 210' with 860' advance on 2 levels, minor Au recovery from 75 tpd mill, dd. 1962: bulk sampling. 1969: geoph surveys, trenching. 1973-78: trenching, dd.	50,000 at 0.23 oz/t Au 1945 ? (FP Surv Ms 1950, p 302)	Work on the property in the 1970's concentrated on search for copper.
QUE-190	TIBLEMONT CONS MINES Beauregard Res Inc 32 C/6 48°15.8' 77°17.8'	Native gold erratically distributed in several fracture zones in granodiorite and diorite, at the periphery of the Pascalis-Tiblemont batholith and in feldspar porphyry dykes. Minor minerals are cp, mo and a bismuth telluride.	1933: discovery. 1934-39: adit and 510' shaft with 4 levels and 4,000' lateral advance, bulk samples tested in pilot mill, dd. 1956: mag, SP surveys. 1960: minor dd.	250,000 at 0.09 oz/t Au available by open pit 1939 (Que SP-2, p 252, 1967)	Located on a large island in Tiblemont Lake, near Senneterre.
QUE-191	VALIANT (SMITH-TIBLEMONT) Commander Res L 32 C/6 48°16.6' 77°15.3'	The Zulapa zone consists of massive and disseminated py, po, pn, cp segregated magmatically in the mafic basal section of a differentiated diorite pluton. The Gold zone occurs as qtz veins in a sheared-fractured granodioritic phase of the same pluton.	1933-36: Au discovery, trenching, dd. 1936: 170' shaft with 500' advance on 1 level on Au prospect. 1956-61: mag, EM, SP surveys and dd on Au zone. 1963-64, 70, 72-73: mag, EM, Turam, IP surveys, dd on Zulapa zone. 1979-80: dd.	(i) Zulapa zone: 1,687,000 dd-ind at 0.48% Cu, 0.55% Ni 1964 (CMH 1967-78, p 348) (ii) Gold zone: 135,000 at 0.193 oz/t Au 1961 ? (NM 14/12/72)	Optioned by Jacob Gold Corp in 1982.
QUE-192	ATLAS (DELANDORE) Freeport Sulphur C (in 1966) 32 C/11 48°38.1' 77°02.1'	Massive sulphide (55-60%) deposit of py, po, mag with qtz, chlorite, sericite in tuffs, agglomerates and sediments; probably of sedimentary origin.	1937-38, 45-46, 59: 18,500' dd. 1964-66: mag and Turam surveys and dd by Freeport Sulphur.	13,535,980 at 25.68% S, 37.27% Fe to 400' 1946 (NM 15/10/53)	The resource estimate is confined to a block of about 2,500' x 100' x 400'. Drilling tested only a 1-mi segment of one massive sulphide horizon. There are at least 3 such horizons in the area with a total length of about 5 mi.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-193	VERMONT ZINC (DIK DIK) Great Plains Dev C of Can (1976 option) 32 C/11 48°30.2' 77°19.5'	Volcanogenic, stratiform sulphide (py, sph) deposit in laminated tuffs, 400' long, 7.3' wide, 700' deep.	1933: trenching. 1936-37: trenching, geoph survey, dd. 1952: dd. 1976: IP survey, dd.	213,000 at 3.41% Zn, 1.71 oz/t Ag 1952 (Que GM-3279, 1954)	More probing could be done along the same horizon for possible repetition of the mineralization.
QUE-194	ABCOURT (PERSHCOURT-FREBERT) Ms d'Argent Abcourt Inc 32 C/12 48°31.4' 77°41.1'	Stratiform volcanogenic deposit in agglomerate, in a 4,000' W extension of the Barvue mine zone.	1947-48: trenching and dd. 1951-52: dd, discovery. 1952: shaft sunk with lateral advance on two levels. 1968-71, 75, 80-81: dd.	3,600,000 at 4.07 oz/t Ag, 2.5% Zn with 15% dil across 16' (2 oz/t Ag cut-off) 1980 (NM 29/01/81)	Metallurgical testing done in 1981 showed total recoveries of 91.4% Ag and 80.9% Zn in separate silver and zinc concentrates. Plan further u/g exploration subject to raising funds.
QUE-195	BARVUE MINE Noranda ML 32 C/12 48°31.3' 77°40.5'	Stratiform volcanogenic deposit in acidic to intermediate pyroclastics averaged 102' in width for the 2,700' length mined by open pit.	1950: discovery, trenching. 1950-51: dd. 1951-52: preparation for o/p mining, construction of 5,200 tpd mill. 1952-57: prod of 145,000 tons Zn, 4,000,000 oz Ag, 80 tons Pb from 5.6 million tons of ore mainly from o/p (2,700' x 500' x 250' deep). 1956-57: decline driven to 250' below pit bottom (500' level). 1974-75: o/p and u/g workings dewatered to 3rd sub-level, u/g sampling and dd.	assured: 3,458,000 at 3.5% Zn, 1.2 oz/t Ag above 500' level plus poss: 600,000 at 3.6% Zn, 2.0 oz/t Ag between 500' and 650' 1957 (NM 06/06/74)	Noranda purchased the property in December 1975 from Manitou-Barvue ML, which has the option to retain either carrying or participating interest in the property. Re-opening depends on Noranda priorities, markets and prices.
QUE-196	BARTEC-BARGOLD Chesapeake L 32 C/12 48°30.9' 77°35.9' (Bartec)	Bartec zone occurs along 1,000' of the Bartec fault which cuts obliquely across fragmental and massive lavas. The zone comprises a 3'-10' width of schist containing irregular qtz and carb veinlets with py and mariposite. Bargold is a 15' wide zone in sheared and carbonatized tuffs, traced for 375'.	1926, 32: discovery, pits, dd on Jackson. 1940: discovery, dd on Bartec. 1946-47: mag survey, dd on Jackson. 1957-59: mag, SP surveys, dd. 1974: dd on Jackson.	(i) Bartec: 125,000 at 0.23 oz/t Au 1974 (CMH 1978-79, p 235) (ii) Bargold (Jackson): 100 t/VF at 0.17 oz/t Au 1947 (NM 22/10/59)	
QUE-197	DUMONT (WENDELL) Y Chisseon (in 1977) 32 C/12 48°34.9' 77°56.5'	Disseminated po, cp, pn (?) in a chimney-like deposit in a small gabbro plug, probably originating by magmatic segregation.	1945-46: mag survey, dd. 1955: dd. 1957-58: mag survey, dd.	65,000 at 0.31% Ni, 0.68% Cu 1959 (Dumont Nickel Corp, 1959 prospectus)	

QUE-198	GOLDVUE Standard GML (option) 32 C/12 48°40.3' 77°53.6'	Generally erratic Au values in qtz veins, perpendicular to longitudinal faults cutting a 1,000' thick diorite sill. The vein walls are carbonatized. Considerable lengths of good tenor across drift widths were followed u/g.	1935-39: discovery, trenching, mag and EM surveys, bulk sampling, dd. 1944-46: dd. 1946-53: shaft to 1,275' with 8 levels, 2,600' lateral headings, u/g dd. 1978-79: EM, mag surveys. 1980-82: geoph, dd, shaft dewatered.	230,000 proven at 0.2 oz/t Au plus 320,000 inf at similar grade to 750' (NM 10/03/83)	Shipped to Belmoral about 14,000 at 0.08 oz/t Au from old stockpile in 1980-81. Under option by Esso Mnrls Can in 1981-82.
QUE-199	MONPAS Albermont Inc 32 C/12 48°36.9' 77°52.2'	Massive pyrite lenses containing lesser cp, sph, gal. A volcanogenic deposit in chloritized tuff. Cp apparently remobilized, into veinlets. The principal lens is 400'-600' long by 25' wide and 50' deep.	1945-46: trenching, mag survey, dd. 1956: dd.	50,000 at 2% Cu, 0.75% Zn, 0.60 oz/t Ag 1956 (Que Fiche: V-Duv-13, 1975)	Company was to resume geoph surveys and dd in 1982 in a joint venture with the Quebec government.
QUE-200	SWANSON Lac Mnrls L 32 C/12 48°33.2' 77°34.0'	A zone of green carbonates and schistose volcanics is cut by aplitic and granitic dykes. Genetic relationships with gold mineralization are still unclear.	1939: surface discovery. 1941, 47: dd. 1955: mag, EM, resistivity, dd. 1958: mag, dd. 1970: 1 ddh. 1977: Soquem option: dd. 1982: 8 ddh.	500,000 at unstated 'economic' grade Au (M Germain, oral 4/02/83)	
QUE-201	TRINITY P Sup (in 1976) 32 C/12 48°42.5' 77°45.6'	Massive to disseminated sulphides (py, cp, sph) in 5 discontinuous lenses comprise a stratiform volcanogenic deposit in acidic agglomerate.	1947: discovery. 1951-57: trenching, mag survey, dd. 1952-53: shaft to 431' with 936' lateral advance on 3 levels.	147,000 at 1.18% Cu, 0.74% Zn plus Au-Ag 1953 (Que PR 443, p 25, 1961)	Soquem has since done some work here.
QUE-202	JOSSELIN-TONNANCOURT Noranda Expln Co, L 32 C/15 48°51.8' 76°59.4'	Exhalative volcanogenic py, po, cp and sph in tuffs and graphitic argillite.	1967: discovery, mag and EM surveys. 1968-73: dd.	60,000 at 2.07% Cu, 3.17% Zn, 0.73 oz/t Ag 1973 (Que GM-28766, 1973)	
QUE-203	BLACK CLIFF (VINRAY) Black Cliff ML 32 D/1 48°09.8' 78°04.3'	Gold-qtz veins in shears and fractures in sills of diorite. Shoots vary from 2.5' to 11.5' in width, 50' to 525' in length and 100' to 600' in depth.	1945-47: dd, mag survey. 1947-48: shaft sunk 275' with minor lateral advance and dd on 2 levels. 1959-63, 71, 79-80: dd. 1980: shaft dewatered, 500' lateral drives on 125' L.	dd-ind: 696,850 at 0.27 oz/t Au in 22 shoots to max 600' depth 1963 (NM 25/06/64) or poss: 517,000 at 0.262 oz/t Au (incl 184,000 prob at 0.32 oz/t) 1979 (NM 18/10/79)	
QUE-204	BOUSCADILLAC Sulpetro Mnrls L 32 D/1 48°13.9' 78°26.3'	Gold in narrow qtz veins in andesite with asp, py, po. Possibly volcano-exhalative sulphide deposits, remobilized.	1924-25: discovery, surface work. 1926: dd. 1928-29, 36-37: shaft sunk 525' with 3,500' lateral headings on 4 levels, dd. 1975: sampling.	poss: 40,000 at 0.23 oz/t Au 1938 (Que GM-6980, 1938)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-205	CANADIAN MALARTIC Lac Mnrle L 32 D/1 48°07.8' 78°07.5'	Several shallow deposits in porphyry and sediments on the extension of, or near, formerly mined deposits.	1923: first discovery. 1924-29: tr, dd, No. 1 shaft sunk. 1935-65: prod more than 1 million oz Au from workings extending to 1,625'. 1981-82: dd.	5-6 million tons at 0.05 oz/t Au 1982 (Finance 28/06/82)	Much of the tonnage is reportedly available by open-pit in Gilbert, Gouldie, 'F' and 'P' zones.
QUE-206	CONSOLIDATED CENTRAL CADILLAC 32 D/1 48°14.0' 78°20.9'	Two types of gold orebodies occur in a 100' wide zone N of and adjacent to the Cadillac break: (1) Qtz-tourmaline-py-scheelite-native gold veins in flat to low-dipping fractures through tuffs. (2) Gold associated with heavy py, in iron-formation, probably of syngenetic, volcanic, origin. The qtz-tourmaline orebodies are the more extensive but of lower grade and subject to more dilution during mining.	1927-28: trenching. 1934-36: dd, shaft sinking. 1939-43, 47-49: prod 90,000 oz Au plus minor Ag and WO_3 from 641,000 t milled, extracted from u/g workings extending over 4,500' length and 1,000' depth of the zone, opened by 4 shafts. 1964, 68, 73: dd. 1979: geoph.		Separate adjoining properties, once consolidated and with interconnected u/g workings, each representing a one-mile gold-bearing segment along the Cadillac break.
	a) CENTRAL CADILLAC Kewagama GM (Que) L 48°14.0' 78°21.0'	West segment.	1981-83: new headframe erected, workings dewatered, dd.	56,000 prob, 70,000 dd-ind and 272,000 inf, totalling 398,000 at 0.16 oz/t Au to max. 1,500' depth 1974 (H J Bergmann 1974, in Prospectus, Highland Star ML)	
	b) WOOD-CADILLAC Gallant GML 48°14.0' 78°20.9'	East segment.	1980-81: dewatering, surface and u/g dd.	250,000 prob, 334,000 dd-ind and 564,000 inf, totalling 1,148,000 at 0.16 oz/t Au to max. 1,500' depth 1974 (Bergmann 1974, as above)	Under option since 1980 by Belmoral ML which can earn a 55% interest.
QUE-207	DARIUS (O'BRIEN) Sulpetro Mnrle L 32 D/1 48°14.0' 78°23.8'	Au in tabular qtz veins with aspy and py in volcanics and sediments, adjacent to the Cadillac fault.	1924: discovery. 1924-49: shafts sunk to 3,450'. 1933-57: prod 1.2 mil. tons at 0.456 oz/t Au. 1978-81: prod 140,000 at 0.10 oz/t Au.	160,539 mt proven at 5.08 g/t Au; 122,445 mt prob and 181,400 mt inf at unstated grades 01/07/80 (Que DPV-814, p 4, 1981) or 280,000 at 0.17 oz/t Au 1981 (NM 25/03/82)	The Darius mill treated ore from the Kewagama mine in 1982.

QUE-208	EAST AMPHI Sulpetro Mnrls L 32 D/1 48°08.7' 78°09.2'	Gold-bearing qtz veins in fractured diorite bodies intrusive into the talc-chlorite schist of the Cadillac break.	1923: initial discoveries. 1937-45: 46,000' dd. 1946-48: shaft sunk 504' with 6,258' lateral headings on 2 levels, u/g dd. 1958: dd.	(i) 325' level: 120' x 23' at 0.54 oz/t Au (ii) 475' level (directly below above): 60' at 0.38 oz/t across drift width 1947 (Que PR 256, p 48, 1951)	At 325' level there is an additional 180' of mainly low-grade material; drill holes above and below the high grade segment encountered much lower grade material. A number of interesting gold intersections by drill holes from drifts were not further explored, nor were chances of finding better concentrations below the second level investigated.
QUE-209	GOLDSEARCH Nor-Quest Res L (57% int) 32 D/1 48°08.6' 78°08.6'	Gold occurs in porphyry and diorite, close to the contact with the Cadillac shear zone.	c 1928: first Au discovery. 1974: VLF EM and mag surveys. 1975-76 and pricr: dd. 1979-81: dd.	(i) Western Porphyry: 760,000 poss at 0.14 oz/t Au across 20' to 500' 1979 or drill-proven 140,000 at 0.12 oz Au 1981 (NM 17/09/81) (ii) Townsite Diorite: 460,000 poss at 0.102 oz/t Au across 6' to 500' 1980 (VSE SMF 46/81, Nor-Quest Res L)	Located at the northern outskirts of the town of Malartic.
QUE-210	LAPA CADILLAC Sulpetro Mnrls L 32 D/1 48°13.2' 78°16.2'	Au-bearing lenses, conformable to hosting biotite schists (basic tuffs), with qtz, py, po, asp. Deposit is now regarded as volcanogenic, partly remobilized.	1934: dd. 1936-38: shaft sunk 706' with 4 levels, u/g dev and dd. 1938-43: prod 47,000 oz Au from 383,000 t milled.	28,000 at 0.19 oz/t Au in No. 23 orebody (arsenical) 1943 (Lapa Cadillac GML, 1943 AR)	Relatively poor gold recovery was attained because roaster was not used to extract the fraction tied up with arsenopyrite.
QUE-211	MALARTIC HYGRADE Malartic Hygrade GM (Can) L 32 D/1 48°09.4' 78°01.9' (shaft)	Gold occurs in qtz veins emplaced in shears and fractures in complexly folded andesite, in the shaft area.	1936, 44, 47, 60: dd. 1961: shaft to 436', 2 levels. 1962-63: prod 18,000 oz Au from 31,000 t milled. 1973, 74, 76: limited dd.	proven: 86,800 at 0.74 oz/t Au 1963 ? (NM 24/07/80)	The figures may be erroneous, representing partial preprod reserves. Total est before prod began in 1961 was 154,800 at 0.43 oz/t Au (uncut). Shaft area is 3,000' north of the Malartic Hygrade orebodies mined under agreement by Camflo ML from Camflo's workings.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-212	NORMAN LAKE Sulpetro Mnrls L 32 D/1 48°14.0' 78°29.7'	Gold in biotite schist enclosed by talc-chlorite schists of the Cadillac fault zone. Au is apparently not related to qtz veins.	1932-33: trenching. 1939-40: discovery by dd. 1946: dd. 1978: dd.	dd-ind: c 350,000 at 0.10 oz/t Au (Que DPV-652, 1979)	Outlined block, 600' x 10' x 600' deep, is open at both ends and at depth. Talcose wallrocks could pose mining problems.
QUE-213	PANDORA NO. 3 SHAFT Queenston GML (60%) & Camflo ML (40%) 32 D/1 48°14.0' 78°19.8'	Apparently similar to that at Cons Central Cadillac (see), on the east extension of which Pandora No 3 occurs. The low-dipping qtz veins predominate at Pandora No 3.	1936-37: dd. 1937-39: shaft sunk 400' with 4,000' lateral advance on two levels and u/g dd disclosing 5 Au shoots. 1940-42: prod 80,000 at 0.15 oz/t. 1945-46: surface dd, shaft deepened to 852' with 568' lateral headings on 2 new levels, u/g dd. 1974: surface dd. 1979: mag, VLF and geochem surveys. 1980-81: dd, expln from No. 3 shaft.	(i) West of shaft No. 3: 400' x 18' at 0.204 oz/t Au (ii) East of Shaft No. 3: poss: 1,600' x 13' at 0.176 oz/t Au 1980 (NM 3/07/80)	In early 1982, Camflo suspended work, because of low price of gold and poorer results than expected, leaving the No. 3 workings on care and maintenance basis. Camflo can increase its interest in the property to 75%.
QUE-214	VILLEBON Villebon Res L 32 D/1 48°09.2' 78°00.7'	Apparently NW extension of the main zone formerly mined at Norlartic, where gold occurs in qtz vein zones in granodiorite.	c 1945: minor dd. 1980-81: geoph, dd.	205 T/VF at 0.21 oz/t Au (0.149 cut) 1981 (GCNL 27/01/83)	Located between Camflo and former Norlartic mines.
QUE-215	WEST MALARTIC Sulpetro Mnrls L 32 D/1 48°11.3' 78°14.5'	In No 1 area, gold-bearing pods containing py and minor asp, po occur within the talc-chlorite schist of the Cadillac break. In No 2 area, located NE of the break, gold occurs in sparsely mineralized veins cutting volcanics and conglomerate.	1935: discovery, dd No. 1 area. 1936: discovery, dd No. 2 area, shaft sunk 308', small prod from 2 levels. 1940-41: No 2 workings resampled, dd. 1939-45: shaft sunk on No 1 to 1,231' with 9 levels. 1942-46: prod 36,000 oz Au from 308,000 milled from No 1. 1945-46: dd on No 2. 1947-50: surface and u/g dd with 2,000' lateral advance on 275' level of No 2.	(i) A Vein extension: 20' x 2.38' at 1.60 oz/t Au, and 78.5' x 1.69' at 0.18 oz/t Au (ii) South Mineral Zone: 67' x 3.32' at 0.322 (0.248 cut) oz/t Au 1948 (F H Elliott 31/05/48, letter to directors of Angus ML)	The values were indicated by channel sampling in 275' level drift, NW of No 2 shaft (No 2 area).
QUE-216	CALDER-BOUSQUET Odyno Minière Inc 32 D/2 48°13.8' 78°35.3'	No 4 gold-bearing zone occurs in greywacke just S of the Cadillac break as qtz-carb stringers in a length of 1,400' and width of 12.5'. Many of the Au occurrences in the area are now thought to be of volcano-exhalative origin, subsequently remobilized.	1932-34: discovery, surface work, dd. 1936: shaft sunk on No 2 zone, short advances on 2 levels. 1938-50: dd on 5 zones. 1955-57: dd. 1969: EM 1977-79: stripping, dd.	dd-ind: 172,000 at 0.17 oz/t Au to 250' in No. 4 zone c 1950 (St Lawrence River ML, AR 29/02/60)	Since 1977 the property has been explored under option by Lac Mnrl L.

QUE-217	DOVERCLIFF Dovercliff Mnrls L 32 D/2 48°12.7' 78°56.1'	Gold is associated with narrow qtz veining and silicification in the vicinity of Bouzan-Cadillac fault.	1923: staking and original Au discoveries. 1928: shaft sunk 132' with 140' crosscuts on 100' level. 1932-33: pits sunk, dd. 1939, 44-46: dd. 1979-81: reassessment, minor dd.	poss: 475,000 at 0.13 oz/t Au 1979 (J D MacCannell 12/09/79 rept to Dovercliff Mnrls L)	Location is just south of the main highway, 3 mi east of Rouyn, and just west of the former McWatters mine property.
QUE-218	HEVA MINE Y Vezina 32 D/2 48°13.4' 78°46.9'	Shoots of gold-bearing material occur as networks of qtz veins in and along the footwall of the Cadillac break and along a subsidiary shear in FW greywacke.	1944-45: dd. 1946-48: shaft sunk 697' with 2,600' advance on the first 2 of 3 levels. 1949: dd. 1951-52: prod 8,000 oz Au, 6,500 oz Ag from 39,000 tons shipped. 1975: mag survey. 1981-82: dd.	400,000 at 0.16 oz/t Au 1982 (F Dubuc, oral 10/03/83)	Heavy timbering was required to support the hangingwall, comprised of the talcose rocks of the Cadillac break, a potential source of dilution. Investigated in 1978-82 by Soquem which after spending $2 million decided that reopening was not feasible.
QUE-219	HOSCO Y Vezina 32 D/2 48°13.5' 78°46.9'	Gold with asp, py, cp in silicified greywacke in the FW of the Cadillac fault. The zone is 100'-350' wide. Mineralization was traced for 1,500' length. Another zone to the south and a third to the north, across the fault, could combine for a low grade o/p operation.	1944-45: dd, discovery. 1946: inclined shaft sunk 531' with 2 L's. 1948-49: shipped 50,567 ore. 1975: mag survey. 1982: dd.	1,200,000 at 0.15 oz/t Au 1974 (Y Vezina, oral 2/02/83)	Potential for a much larger but lower grade tonnage. Under option by Soquem since 1978.
QUE-220	McWATTERS Dwexland L 32 D/2 48°12.7' 78°54.4'	Gold in qtz veins with py, tourmaline, ankerite, scheelite and green mica in conformable and cross-cutting zones in conglomerate. Recently suggested origin of gold is by volcanic exhalation into carbonate and sulphide facies of iron formation, with subsequent remobilization.	1932-33: discovery, trenching, dd. 1933: shaft sunk. 1934-44: milled 360,000 at 0.33 oz/t Au from u/g workings extending to 1,500' level and explored down to 2,200'. 1950: dd. 1973-74: re-evaluation, minor dd 1981-82: dd.	poss: 150,000 at 0.20 oz/t Au above 1,200' and 270,000 at 0.24 oz/t Au between 1,200' and 1,500' 1974 (J P Jewell 07/03/74 rept for Currie Rose GML)	Investigated by Soquem in 1979-81 under option.
QUE-221	O'NEILL-THOMPSON Y Vezina 22 D/2 48°13.1' 78°51.2'	Three parallel shear zones, 6' wide, contain qtz-ankerite veins with py, on either side of a sinuous diorite-andesite contact.	1932: discovery. 1932-71: intermittent work; dd, 175' shaft with small prod in 1936, mag and EM. 1982: dd.	poss: 38,500 at 0.20 oz/t Au to 300' in 3 lenses 1959 (Que PR 443, p 36, 1961)	Under option to Soquem in 1982.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-222	ROUYN MERGER Soquem 32 D/2 48°12.9' 78°52.4'	Gold in qtz-ankerite stringers with cp, py at a conglomerate-tuff contact. A syngenetic origin has been proposed whereby gold was deposited in carbonate and sulphide facies of iron formation by volcanic exhalation, with subsequent remobilization.	1933, 38-39, 44: dd. 1945-48: shaft sunk on incline 1,121' with 6 levels. 1948-49: prod 3,900 oz Au from 32,000 t shipped. 1950, 64, 72-73: minor dd. 1959, 73: mag, EM, SP surveys. 1979-80: dd.	400,504 ind at 0.16 oz/t Au plus 193,600 semi-ind at 0.14 oz/t (25% dil) 1980 (Soquem 3rd Quarter Rept, 1980-81)	Mining (1948-49) was subject to heavy dilution. After further investigations by Soquem in 1981, work was deferred pending improvement in gold prices.
QUE-223	ALDERMAC Nuinsco Res L 32 D/3 48°13.2' 79°14.0'	Three large lenses of massive py, po, cp, sph in acidic pyroclastics were mined. These deposits are considered to be syngenetic.	1925-26: discovery, dd. 1926-30: shaft sunk 1,147' with 6 levels, u/g dev. 1931-32: mill erected, trial runs. 1933-34: u/g dev resumed, stopped after fire destroyed the surface plant. 1936: u/g dev resumed. 1937-43: prod 2,000,000 at 1.6% Cu; recovered Cu, Ag, Au, py. 1947-54, 59-61: dd. 1976-77: geoph, dd. 1981-82: dd.	300,000 at 1.85% Cu in or near workings, incl pillars, to 950', plus 100,000 at 1.5-2.0% Cu in shaft pillar between 412' and 698' depths 1943 (NM 14/12/61)	
QUE-224	ASTORIA Energy & Res (Can) L 32 D/3 48°11.6' 79°02.2'	Gold in qtz-carb veins within the chlorite-talc schist of the Cadillac fault.	1931: 58' shaft sunk. 1933-34: dd. 1935-37: main shaft sunk 430', lateral advance on 125' and 406' levels. 1943-46: dd, u/g dev resumed on 406' level. 1979-81: geoph, dd.	765 T/VF at 0.171 oz/t Au 1937 (NM 18/10/79)	The resource was outlined in two zones on 406' level.
QUE-225	BAZOOKA Soquem 32 D/3 48°11.8' 79°06.4'	Gold in qtz veinlets within carb-talc-chlorite schist (altered greywacke) of the Cadillac break. Two ore-shoots, 130' and 60' long, were delineated on 372' level.	1944-46: dd, discovery. 1951-52: shaft sunk 409' with 2,081' advance on 372' level, u/g dd. 1980-81: dd.	100 T/VF at 0.27 oz/t Au in two shoots on 372' level 1952 (Que PR 374, p 4, 1958)	Investigated in 1980-81 by Soquem which found erratic gold values.
QUE-226	BEAUDRY (ODYNO, NORZONE) Noranda ML 32 D/3 48°07'37" 79°10'40"	Discontinuous lenses and pockets of sph, gal, cp, py in a zone extending 500' down a 60° rake, 300' long and 8' wide, within a zone of silicification, 100-150' thick, which cuts across Pontiac metasediments.	pre-1938: discovery. 1942: dd. 1946-49: shaft sunk, minor advance on 4 levels. 1951-52: u/g dev, shipped 7,426 tons ore. 1974-present: quarrying of qtz for silica flux S of shaft.	87,700 at 8.5% Zn, 0.74% Pb, 0.24 oz/t Ag to 620' 1948 (Que PR 256, p 51, 1951)	1951-52: u/g work found ore shoots discontinuous and mining subject to heavy dilution. Noranda had quarried a barren portion of the vein between 1974 and 1978.

QUE-227	BLACK BAY Y Vezina 32 D/3 48°03.9' 79°11.3'	Two main discontinuous qtz veins up to 2' thick and associated veinlets, irregularly mineralized with cp, in a zone 20' wide. In Pontiac Group schists.	1962-63: discovery, trenching, mag and IP surveys, dd.	dd-ind: 200' x 3.5' to 100' at 2.60% Cu 1963 (Que PR 565, p 50, 1967) or dd-ind: 210' x 4' to 250' at 3.53% Cu 1963 (T Koulomzine 20/07/63, rept to Black Bay Uranium L)	Koulomzine's estimate is reportedly based on 17 ddh intersections.
QUE-228	DURBAR Augmitto Expls L 32 D/3 48°11.8' 79°05.5'	North Vein is a qtz vein up to 8' wide, traced 550' in rhyolite. South zone occurs in the Cadillac fault zone, esp in two carbonate horizons which carry erratic Au values.	1924-25: trenching, dd on North Vein. 1932-34: dd, shaft and 450' advance on one level on North Vein. 1936, 43-45, 58, 68, 73-74: dd on North and South zones. 1979-80: stripping, churn dd, stockpiling broken rock from pit in South zone.	(i) North Vein: 28,000 pot at 0.69 oz/t Au (ii) South Zone: 63,000 pot at 0.26 oz/t Au 1980 (NM 05/07/80)	At the end of 1980 the company had some 50,000 tons stockpiled and a pilot mill was operated on site in 1981. No further work will be done until gold prices improve.
QUE-229	FRANCOEUR (WASAMAC NO 2) Wright-Hargreaves ML 32 D/3 48°12.5' 79°17.4'	Nos 1, 2 and 3 deposits lie at intervals, east to west, along a major fault dipping 40-50°N and cutting obliquely volcanics and pyroclastics. The deposits consist of silicified, carbonatized and albitized lenses with py and specularite.	1923-29: discovery, surface work, minor dd. 1932-35: No 1 shaft sunk on incline 745' with 4 levels, on No 1 deposit. 1936-38: No 2 shaft sunk on incline 600' with 4 levels on No 2 deposit. 1938-47: prod 570,000 t at 0.186 oz/t Au from Nos 1, 2, 3 (upper), and 8 deposits. 1962-67: dd. 1967-68: No 3 shaft (Wasamac No 2 mine) sunk 1,565' with 8 levels on No 3 deposit. 1968-71: prod 425,000 t at 0.17 oz/t from No 3. 1973: dd. 1981: IP survey.	128,471 at 0.2 oz/t Au 1971 (Que DP-223, p 6, 1974)	Chances are good of outlining further tonnage near and outside the existing workings. The feasibility of reopening was under study in 1981.
QUE-230	GRANADA Goldsearch Inc 32 D/3 48°10'45" 79°01'40"	Au-qtz veins, associated with syenite porphyry intrusions, occur conformably in Pontiac conglomerate and in bodies of the porphyry.	1923-24: discovery, trenching. 1927-35: two shafts sunk with 26,000' lateral advances on 13 levels. 1930-35: prod 51,000 oz Au and 8,000 oz Ag from 180,000 tons milled. 1947: dd. 1950,68: geoph surveys, dd. 1975: mag-EM surveys. 1982: dewatered to 700'; small shipments to Darius mill at Cadillac.	(i) Mine: 350,000 at 0.35 oz/t Au, open laterally and to depth. (ii) Tailings: 75,000 at 0.08 oz/t Au or 100,000 at 0.06 oz/t Au 1982 (NM 21/10/82)	Kewagama GM (Que) L optioned a 50% interest in 1981. Plan u/g sampling and dd.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-231	MACWIN (WINGAIT) Wright-Hargreaves ML 32 D/3 48°12.9' 79°10.5'	Two gold-bearing horizons: one is in HW sheared and silicified rhyolite with py, the other within the underlying Wasa shear in a silicified and carbonatized zone, resembling those of the adjacent Wasa Lake mine.	1944-47: 28,000' dd, shaft abandoned at 34'. 1974: 6 ddh.	dd-ind: 193,900 at 0.18 oz/t Au in 2 zones to 450' 1947 (NM 24/06/47)	After undisclosed but disappointing results of drilling in 1974, the sinking of a planned 400' decline was deferred indefinitely.
QUE-232	O'LEARY MALARTIC A Laporte 32 D/3 48°10.0' 79°18.8'	A zone of qtz containing cp and some bornite, up to 5' wide, in biotite paragneiss at the contact with a diabase dyke.	1956: dd.	30,000 at 1.25% Cu 1956 (Que PR 390, p 30, 1959)	
QUE-233	R M NICKEL Corp Falconbridge Copper 32 D/3 48°15' 79°17'	Disseminated po, pn, originating by magmatic segregation at the base of a diorite dyke in a zone 34' thick.	1947-48, 50: geoph surveys, dd. 1956: SP survey, dd. 1957-59: dd. 1970: re-evaluation. 1974: EM, mag and IP surveys. 1982: re-evaluation.	350,000 at 0.74% Cu, 0.51% Ni 1982 (Y Vezina, oral 2/02/83)	The deposit also carries Pt values and averages about 2 oz/t Ag.
QUE-234	SENATOR NSR Res Inc 32 D/3 48°13.9' 79°03.5'	Au-qtz veins in a carbonatized ore zone up to 600' long and 75' wide, in diorite. Accessory minerals include chrome, mica, tourmaline, py.	1936-37: discovery, dd. 1939: shaft sunk. 1940-55: prod 1,800,000 at 0.13 oz/t Au from mine with 20 levels down to 2,775'. 1981: re-evaluation.	proven: 98,000 at 0.127 oz/t Au in stopes and 68,000 at 0.155 oz/t in pillars, all above 2,775' L 1981 (NM 28/04/83)	The tonnage was categorized as "not presently available" in the company's annual report preceding the last 9 months of prod. Possibilities of finding more ore were not exhausted when the mine closed in September 1955 because of financial difficulties.
QUE-235	STADACONA Falconbridge L 32 D/3 48°12.9' 79°01.9'	Gold in anastomosing qtz-carb veins with py, tellurides, asp, cp, gal and chrome mica in zones averaging 8' wide, along faults in acidic pyroclastics.	1928-35: discovery, shaft sunk. 1936-58: prod 466,000 oz Au from 3,000,000 t milled, workings down to 3,975' with 27 levels.	in sight: 137,340 at 0.147 oz/t Au 1958 (NM 06/09/62)	To date the largest straight gold producer in Rouyn township.
QUE-236	VALRAY (CRANGOLD) Silver Sceptre Res L 32 D/3 48°09.4' 79°17.3'	Irregular and discontinuous qtz veins in mafic-greywacke carrying variable amounts of chalcopyrite.	1929-31: discovery, trenching, minor dd. 1941: dd on No. 2. 1945: dd. 1951-52: mag and SP surveys, channel sampling, dd of Nos 1 and 2. 1957: dd mainly on No. 1. 1962: IP survey. 1970-71: EM survey, dd mainly on No 2. 1981: VLF survey.	(i) No 1 Vein: 24,000 at 3.85% Cu 1957 (ii) No 2 Vein: 60,000 at 1.5% Cu 1970 (NM 01/07/71)	

QUE-237	WASA LAKE (WASAMAC NO 1) Wright-Hargreaves ML 32 D/3 48°12.7' 79°12.0'	The Wase shear zone of carbonate-talc-chlorite-amphibolite alteration of volcanics contains zones of gold-bearing qtz stockworks with py and cp. The largest, West, zone was 1,200' long by 30-50' and contained lenses of mineralization of about 750' by 20'.	1936-38: dd, shaft sunk 220', with 1,300' drives on 2 levels. 1944: dd. 1945-50: main shaft sunk on incline 1,263' with u/g dev and dd on 5 levels. 1951: shipped 10,000 t from stockpile. 1964: built 1,500 tpd mill, rehabilitated u/g workings. 1965-71: prod 2,080,000 t at 0.125 oz/t Au. 1980-81: geoph surveys, dd.	437,623 st 0.148 oz/t Au 1971 (Que DP-223, p 6, 1973)	Consideration given to pillar extraction in 1981.
QUE-238	WRIGHT-ROUYN Energy & Res (Can) L 32 D/3 48°12.6' 79°02.3'	Probably similar to Stadacona's: qtz-carbonate veins along faults in acidic pyroclastics.	1924: stripping, trenching. 1931: dd. 1939: Stadacona mine's 600' level drift advanced 810' into property, dd. 1946: dd from 600' level.	150,000 st 0.2 oz/t Au below 600' 1946 (FP Surv Ma 1948, p 285)	Drifting in 1939 reportedly indicated 3 oreshoots in the main Stadacona zone on Wright-Rouyn property. The tonnage estimate is for a deposit reportedly located south of the Stadacona zone.
QUE-239	BORDULAC (RUSSIAN KID) El Coco Explo L 32 D/4 48°14.8' 79°30.4'	Gold with py and scheelite in qtz-carbonate veins in a shear and breccia zone within a body of qtz diorite. Substantial amounts of scheelite occur in parts of the veins.	1924-25: discovery pits. 1933-35: trenching, sampling, dd. 1945-47: dd. 1948: shaft sunk 150' with 1,010' lateral advance, u/g dd. 1948-49: dd. 1951-52: shaft deepened to 320' with 1,620' lateral headings on 300' level. 1956-57: EM survey. 1961-63, 67: dd. 1972: workings dewatered and resampled. 1973: decline advanced 460', dd. 1980: decline extended to meet shaft workings. 1981-82: small ore shipments; u/g workings extended, then flooded.	1,126,000 ind at 0.28 oz/t Au plus 449,400 inf at 0.28 oz/t Au 1971 (C W Archibald 22/11/71, in CSE FS, Gold Hawk ML) or 1,193,726 mt at 5.91 g/t 1982 (Que DPV-868, p 13, 1982)	In 1981 trucked 6,802 mt at 2.49 g/t Au to Belmoral mill near Val d'Or.
QUE-240	ANSIL Corp Falconbridge Copper 32 D/6 48°21.5' 79°07.5	Stratabound massive py and sph lens along andesite-rhyolite contact dipping 50°E at vertical depths from 4,300 to 5,000'.	1947-49: geoph surveys. 1949: dd. 1957: trenching. 1960-61: dd. 1975-76, 80-82: geoph surveys, dd.	more than 2,000,000 7% Cu, 0.5% Zn, 0.8 oz/t Ag, 0.05 oz/t Au 1982 (NM 18/03/82)	U/g dev contingent on improvement in Cu prices.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-241	BEAUCHASTEL COPPER (DESPINA) Beauchastel Copper ML 32 D/6 48°17.3' 79°05.1'	NE to E trending qtz veins in andesite. The veins and wall-rock generally contain up to 25% py and cp. Vein No 5 was explored over 200' by 4.8' to 450' deep. Vein No 8 over 600' by 3.3' to 700' deep.	1926-56: trenching and upwards of 70,000' dd. 1968: minor dd. 1975-81: deep dd under option by Noranda, which now holds 60% int in property.	134,300 at 1.78% Cu in Veins Nos. 5, 6 and 8 1956 (Que Fiche: R-8C-16, 1969)	Noranda has been drilling deep holes near the property's north boundary which is 1,200' S of the Corbet deposit.
QUE-242	D-68 Corp Falconbridge Copper 32 D/6 48°17.7' 79°04.0'	Sulphide mineralization, including cp, sph, in fractures in qtz-feldspar porphyry sill at the andesite-rhyolite contact. A sub-horizontal lens at 1,100' below surface.	1950-52: EM survey, dd. 1955-56, 58, 68, 70: dd. 1981-82: u/g heading advanced from Corbet workings, dd.	50,000 mt at 3.8% Cu, 5% Zn, 62 g/t Ag, 2 g/t Au (R Marcotte, oral commun 04/82)	This deposit is located nearly 1 mi SE of Corbet shaft from which it will likely be mined eventually.
QUE-243	DON ROUYN Noranda ML 32 D/16 48°15.1' 79°04.0'	Silica rich phase of the Powell granite stock, containing some cp and moly.	1925-29: rock cuts, trenches, 100' shaft, dd. 1957-80: prod 5,640,000 mt siliceous flux ore for the Noranda smelter.	36,000,000 mt at 0.15% Cu, 75% SiO_2 (Que TT, 1983)	
QUE-244	DUQUESNE Eldorado GN Inc 32 D/6 48°28.04' 79°02.1'	Gold and minor silver in qtz-carb veins in and near a breccia zone within a steeply plunging lens of qtz-feldspar porphyry.	1923-25, 32: trenching. 1933: dd. 1934: mine discovery, dd. 1936-39: dd. 1941-42, 45-51: shaft sunk 1,250' with 9 levels. 1947, 49-50, 52: shipped 90,000 at 0.36 oz/t Au. 1965: minor dd. 1974: re-evaluation.	poss: 80,000 at 0.37 oz/t Au 1974 (NM 25/04/74)	
QUE-245	ELDERIDGE CDR Res Inc 32 D/6 48°16.8' 79°07.9'	Gold-bearing pyrite disseminated in qtz veins cutting Flavrian Lake granite.	1945: dd. 1967: trenching. 1968-69: mag and EM surveys, dd. 1980: dd. 1980-81: dd.	57,000 at 0.152 oz/t Au 1981	Sullivan Mng Gp optioned 50% interest in property from CDR in 1981.
QUE-246	ELDRICH-FLAVRIAN Soquem 32 D/6 48°19.1' 79°12.1'	Gold-bearing qtz veins in Flavrian Lake granite. Two principal sets of veins occurred in the mine.	1927-29: pits and small shaft, dd. 1938: surface work. 1946-47: mag survey, dd. 1953-54: dd. 1955: shaft sunk 1,064' with 7 levels. 1956-62: shipped 720,000 fluxing ore at 0.14 oz/t Au, 66.6% SiO_2 to the Noranda smelter. 1974, 80: dd.	(i) Mine: 272,100 poss at c 0.14 oz/t Au 1962 (?) (NM 16/07/81) (ii) N Ext: 300,000 prob at 0.126 oz/t Au (cut-off at 0.058 oz/t across 2 m) plus 440,000 poss 1981 (TSE LS 2885, 1982)	The former Eldrich mine has been purchased by Soquem and Sullivan Mng Gp. N Extension deposit is on a separate adjoining (Flavrian) property being investigated by Soquem.

QUE-247	LANAUDIERE (GARNEY) Goldcop ML 32 D/6, 11 48°30.0' 79°06.2'	Gold-bearing zone of shearing, brecciation, silicifcation and carbonatization, 2.5' to 5' wide between pillow lavas and a qtz-feldspar porphyry.	1939: discovery, trenching. 1940, 46, 61-65: dd. 1965: shaft sunk 232' with 1,250' lateral headings on 2 levels. 1966-67: dd. 1975: mag, IP, resistivity and geochem surveys by Louvem. 1978-79: geochem, dd. 1981: geoph surveys, minor dd.	222,762 mt at 2.69 oz/t Au (15% dil) 1981 (Expl Aiguebelle Inc, 1982 AR)	
QUE-248	HALLIWELL C T Bischoff (?) 32 D/6 48°15.2' 79°11.0'	Disseminated to massive py-cp-po in andesite, with Bi-Mo values.	1926-29: trenching, SP survey, dd. 1933-36: dd. 1936-37: shaft sunk 496' with dev work on third level, bulk sample test. 1938: shipped 2,700 at 0.562 oz/t Au; u/g dev. 1944-47: mag survey, dd. 1967: mag and EM surveys, dd. 1970: dd. 1973-74: shaft dewatered, u/g dd.	200,000 at 1.5-2% Cu in 3 zones above 450' 1974 (MSE FS 30/04/75, Jupiter Dev Corp L)	Investigated by Soquem in 1979-81.
QUE-249	HORNE MINE-NO 5 ZONE Noranda ML 32 D/6 48°15.3' 79°00.7'	Horne is the largest composite base metal-gold sulphide deposit of volcano-exhalative origin hitherto found in Quebec. 31 separate orebodies were mined. No 5 zone stratigraphically immediately overlies the formerly highly productive 'H' zone and consists of massive py-po with minor sph, cp.	1920-23: mine discovered, trenching, dd. 1923-62: 6 shafts sunk with levels down to 8,000'. 1925-27: smelter erected. 1927-76: milled 59,000,000 at 2.2% Cu, 0.17 oz/t Au, 0.56 oz/t Ag (recovered grade) plus py, Te, Se.	60,000,000 at 40% S, 0.60% Zn, 0.11% Cu, minor Au, Ag 1948 (Que TT 1978)	Parts of Zone 5, rich in Cu and Au, had been selectively mined. The extraction of the remaining low grade pyritic zinc orebody would require expensive dev for large scale u/g mng: not regarded economic at present.
QUE-250	LAKE DUFAULT NO 1 Corp Falconbridge Copper 32 D/6 48°18'27" 79°03'45"	Low-dipping massive sulphide lens, about 500' x 150' x 16' (thick), lying directly on the Amulet Rhyolite and overlain by the Amulet Andesite, at a depth of 1,700'. Volcanogenic; underlain by dalmatianite alteration pipe.	1941: discovery by dd from u/g workings in adjoining Amulet-Dufault ground. 1941-46: heading driven above deposit on 1,050' level of A-D, u/g dd. 1950: dd.	100,000 at 8.32% Zn 1945 (Lake Dufault ML, 1950 AR) or 65,000 at 8.7% Zn, 0.02 oz/t Au, 1.13 oz/t Ag (Que SP-2, p 85, 1967)	Located 3,500' NW of Millenbach shaft.
QUE-251	MAGUSI Noranda ML 32 D/6 48°26.5' 79°22.4'	Volcanogenic, stratiform sulphide (po, py, cp, sph) body with Cu-rich and Zn-rich zones in altered acidic volcanics (qtz-sericite schist).	1962: dd - 1 hole drilled by Mining Corp of Can L missed the deposit by 150'. 1972-73: discovery by dd, in follow-up of INPUT and Dighem surveys. 1973-74: SP, resistivity, seismic, mag and EM surveys. 1976: dd.	4,110,000 at 1.20% Cu, 3.55% Zn, 0.032 oz/t Au, 0.91 oz/t Ag 1973 (NM 14/06/75) or 1,520,000 at 1.0% Cu, 4.8% Zn, 0.04 oz/t Au, 1.0 oz/t Ag (Noranda ML, 1977 AR)	Noranda ML purchased the property in 1974 from Iso ML and Copperfields Mng Corp. The deposit is exploitable in part by o/p and in part u/g. Very fine grained sph in the pyritic Zn zone will cause recovery problems.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-252	NEW INSCO (FABIE BAY) Nuinsco Res L (46.3%) (Lynx-Can Expls L Muscocho Expls L Dejour ML-15.6% each) 32 D/6 48°26'27" 79°21'06"	Volcanogenic, stratiform sulphide (po, cp, py) deposit in rhyolitic breccia, between rhyolite and (overlying) andesite.	1972-73: VLF survey, dd. 1975: o/p preparation, decline driven with 3 levels. 1976-77: shipped 103,000 dev ore tc the Horne mill.	Mineral Inventory: 874,000 at 2.59% Cu, 0.60 oz/t Ag 1981 (Noranda ML, 1981 AR)	The deposit contains about 0.02 oz/t Au. A 27.5-acre block, containing the deposit, is under lease and was subject to advance royalty payments by Noranda ML since 1974.
QUE-253	NEW MARLON Noranda ML 32 D/6 48°15.9' 79°04.2'	Qtz vein in a basic dyke filling a tension fracture in the dioritic phase of the Powell batholith. Gold occurs with py and in the native state.	1934, 37, 44-46: trenching, dd. 1946-48: shaft sunk 789' with 6 levels. 1947-49: shipped 108,000 at 0.19 oz/t Au. 1961-62: geoph survey, dd outside mine area. 1967: under option by Kennco.	Broken: 14,166 at 0.186 oz/t Au and poss in place: 42,000 at 0.19 oz/t Au 1948 (New Marlon GML, 1948 AR) or 56,166 at 0.22 oz/t Au 1950 (NM 28/01/65)	The grades reported by company incl allowance for dilution; all above 600' level. During 1949 the company shipped 25,357 tons which prob decreased resources remaining to less than 56,000 tons.
QUE-254	POWELL ROUYN Lake Shore ML 32 D/6 48°15.8' 79°03.1'	A carbonatized mafic dyke containing the Powell Vein (2 or more discontinuous qtz veins) fills a tension fracture in the Powell albite granite. Gold is contained in auriferous pyrite and minor tellurides inside and outside the veins.	1922-24: discovery, trenching, dd, No 1 shaft sunk with 1 level. 1934-35: dd. 1936: No 1 shaft deepened, 2 levels added. 1937-44: No 2 shaft sunk 2,625' with 16 levels; No 3 shaft sunk 360' with 2 levels. 1952-53: winze sunk from 2,450' to 3,210' with 4 lowest levels. 1937-55: prod 3,100,000 at 0.13 oz/t Au, mostly fluxing ore for the Noranda smelter. 1956-59, 61-62, 67: dd outside the mine area.	102,000 at 0.136 oz/t Au, 72% SiO_2 above 2,450' and 400,000 at unstated grade below 2,450' 1955 (NM 28/01/65)	Tom Powell's discovery in September 1922 precipitated the original Rouyn rush leading to the discovery of many other mines in the area.
QUE-255	QUESABE MINE Sunburst Expl L 32 D/6 48°17.7' 79°12.9'	Gold occurs in a mineralized qtz vein along the footwall of the Quesabe fault and in veins branching into the FW rhyolite.	1929: discovery. 1934-35: trenching, dd, No 1 shaft sunk 325', work on 1 level. 1945: mag survey, dd. 1948-50: No 1 shaft deepened to 635'. No 2 shaft sunk 1,050' with 5 levels. 1949-52: prod 100,000 at 0.3 oz/t Au. 1960-62: mag survey, dd. 1974: IP survey. 1981: completed 8,437' dd.	proven: 14,591 at 0.3 oz/t Au 1952 (Que PR 330, p 41, 1952) or 225,000 at 0.30 oz/t Au to 500' 1979 (NM 18/10/79)	In 1979 the company was seeking funds, an est. $0.5 million being required to resume shipping. The larger tonnage figure may be overstated. Under option by Sullivan Mng Gp in 1983.

QUE-256	SOUTH RUSTY HILL Corp Falconbridge Copper 32 D/6 48°18' 79°04'	Low-grade cp stringer zone, similar to Bedford Hill deposit (see below).	Discovered by dd in the mid to late 1950's; more dd in the 1970's.	approx 500,000 at 0.9% Cu 1979 ? (R Marcotte, oral commun, April 1982)	May be eventually mined from the Corbet workings whose shaft is located 2,000' to the NW.
QUE-257	WAITE DUFAULT (BEDFORD HILL) Corp Falconbridge Copper 70% Waite Dufault ML 30% 32 D/6 48°18.7' 79°06.6'	The deposit consists of disseminated to massive py, po, cp in brecciated rhyolite.	1945-46, 49: dd. 1956-57: EM survey, dd. 1959-61: IP survey, dd. 1967-68: dd. 1971: geoph survey, dd. 1975-76: dd. 1977: geochem survey.	dd-ind: 252,000 at 1.45% Cu 1961 (CMH 1979-80, p 287)	The estimate, made to a depth of 300', appears to have delimited the deposit.
QUE-258	ARROWHEAD Arrowhead GML 32 D/7 48°16.4' 78°40.6'	Two principal gold-qtz veins as discontinuous lenses within shears in andesite.	1923-26: test pits. 1929-30: prospect shaft, dd. 1934-37: dd, shaft sunk 520' with 2,600' lateral advance on 3 levels. 1980: geoph surveys. 1981: IP survey, dd.	6,000 at 0.57 oz/t Au 1937 (NM 22/12/60)	Homestake Mng Co and Soquem optioned the property jointly in 1980 and spent $400,000 on exploration in 1980-82 without obtaining encouraging results.
QUE-259	CLAREMONT Y Vezina 32 D/7 48°17.7' 78°50.3'	Gold in qtz masses with py, tourmaline, 20'-100' wide, 170' long, in andesite and tuff.	1935: discovery, trenching, dd. 1937: sunk 265' shaft with 2 levels. 1946-47: geoph surveys, dd. 1973: mag survey. 1974, 77: surface sampling, testing.	200,000 at 0.2 oz/t Au above 250' 1947 (FP Surv Ms 1948, p 277)	Work in 1977 showed conclusively that the silica content of the deposit was insufficient to qualify it as fluxing ore. The tonnage figure may have been considerably overestimated.
QUE-260	DONALDA (KERRALDA) Kerralda ML 32 D/7 48°15.7' 78°59.1'	Two composite qtz veins (Nos 1 and 2), parallel but divergent in dips, cut rhyolite and rhyolite breccia.	1943-45: mag survey, dd, discovery. 1946: shaft sunk 717' with 4 levels. 1948-55: shipped 695,000 at 0.18 oz/t Au from No 1 Vein. 1952-56: u/g dev of No 2 Vein from Quemont mine workings and lower levels of Donalda after its shaft deepened to 1,861' in 1955-56. 1969: Donalda workings dewatered, dev resumed on No. 2 Vein. 1970: shipped 37,000 at 0.19 oz/t Au from No. 2 Vein. 1974: surface dd.	dd-ind: 520,000 at 0.26 oz/t Au or 330,000 at 0.33 oz/t Au, in No. 2 Vein 1956 (Donalda ML, 1967 and 1968 ARs)	From this estimate, some 37,000 tons at 0.19 oz/t, mined in 1970-71, must be subtracted. During mining the projected ore lengths were found to be shorter overall; dilution was encountered locally due to vein pinching, while roll-overs found in the vein required expensive scraping. A re-evaluation would likely result in considerable diminution of the remaining resource.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-261	MIC MAC (GOLDHURST) Soquem 32 D/7 48°16.0' 78°33.8'	The Contact Zone consists of a series of qtz veins in fractures along a granodiorite-volcanics contact south of the mine. Three distinct vein zones of qtz-carb, in volcanics carrying py, po, cp and Au comprised the ore of the Mic Mac mine.	1936: discovery of mine zone. 1937-39: trenching, sampling, dd. 1938-43: shaft and winze sunk 1,350' opening 6 levels. 1942-47: prod 107,000 oz Au, plus Ag, Cu from 800,000 milled. 1947-50: geoph surveys, dd. 1956, 62, 69, 73-74: mag and EM surveys, dd. 1979: dd.	Contact Zone: 400' x 4' to 800' at 0.70 oz/t Au (cut) 1974 (NM 23/01/75)	There is some doubt of this estimation, because of difficulty of correlating dd intersections, according to some authorities. Soquem reported encouraging work results during 1979-81, when $1 million was spent.
QUE-262	MOBRUN Sulpetro Mnrls L 32 D/7 48°23.3' 78°54.2'	Stratiform, volcanogenic sulphide (py, sph, cp) deposit in rhyolite, 1,000' long, 56' wide, 600' deep.	1955-56: EM, mag, gravity surveys, dd. 1968-69: Turam survey, dd. 1972: IP, resistivity surveys. 1975: EM survey, dd. 1979: unstated evaluation work.	dd-ind: 3,000,000 at 0.69% Cu, 2.18% Zn, 37.4% S, 0.052 oz/t Au, 0.62 oz/t Ag to 600' 1956 (CMH 1979-80, p 265)	Sphalerite is very fine grained, which might cause difficulties in Zn recovery.
QUE-263	SOUTH DUFAULT Soquem 32 D/7 48°17.1' 78°56 4'	The deposit (No 1 Zone) occurs in a porphyritic rhyolite breccia as a flattish mass of disseminations, stringers and massive patches of cp, py and sph, overlain by a sheet of diorite.	1928-42: intermittent surface exploration. 1946: mag survey. 1947-57: dd, EM surveys. 1959: resistivity, EM surveys. 1960: dd - discovery of No 1 zone. 1961-64: dd, mag, EM and resistivity surveys. 1967-68, 74: dd. 1982: dd.	50,000 at 1.6% Cu or 240,000 at 1.08% Cu 1960 (Que PR 472, p 27, 1962)	South Dufault M Inc retained 32% interest in property at the end of March 1982.
QUE-264	GALLEN (WEST MACDONALD) Les Ms Gallen Ltée (Noranda ML 51% MacDonald ML 49%)	At least 4 stratabound massive pyritic bodies, carrying small amounts of sph, occur in a mass of rhyolitic breccia, about one half mile in diameter, entirely surrounded by Lake Dufault granodiorite.	1923-28: discovery, trenching. 1929: dd. 1936: test pits. 1939-52: dd. 1946-48: shaft sunk with 4 levels to 925', u/g dev and dd. 1949: bulk sample tests. 1954: 6-mi aerial tramway erected to Waite Amulet mill. 1955-59: No 1 orebody mined u/g with 1,000,000 conveyed to Waite Amulet, recovering 2.7% Zn, minor Ag, Au, Cu and 724,000 lt py concentrate. 1981-82: o/p shipments from East orebody.	(i) 9,000,000 at 80% py, 3% Zn in No. 1 orebody c 1950 (Que PR 330, p 36, 1956) (ii) 1,605,000 at 5.25% Zn, 0.03 oz/t Au, 0.65 oz/t Ag in East orebody 1982 (Noranda ML, 1982 AR)	Large tonnage estimates have been given for low-grade pyritic deposits on the property, e.g. 28,305,814 at 47.20% py, 1.361% Zn, 0.0154 oz/t Au, 0.3917 oz/t Ag (McDonald ML, 1947 AR)

QUE-265	WILCO Wilco Mng CL 32 D/7 48°15.2' 78°59.0'	The East Bay gold deposit consists of one principal and subsidiary qtz veins in andesite, apexing at 500' depth. The main vein is up to 4.5' thick, but usually less than 2.5'.	1934, 57-58, 80: dd of Au zone. In addition, extensive exploration for Cu, including two shallow shafts, dd, geoph surveys has been carried out intermittently between 1933 and 1979.	200,000 at 0.31 oz/t Au, between 500' and 1,200' below waters of Lac Tremoy c 1958 (NM 31/05/73)	By 1980 Noranda acquired 70% interest in the property and in 1978 admitted Soquem to participate and earn half its interest. Dd in 1980 was not encouraging.
QUE-266	ANGLO AMERICAN (CADILLAC MOLY) Little Long Lac GML (leased by Dumagami ML) 32 D/8 48°19'12" 78°22'45"	Qtz and pegmatitic qtz veins in biotite granite and greenstone, contain mo, bismuthinite and native bismuth.	1906-11: trenches and pits, bulk sample test. 1959-60: dd. 1960-63: shaft sunk 770' with 5 levels, o/p prepared for mng, metallurgical tests. 1964-65: 1,200 tpd mill erected. 1965-70: prod 1,940,000 at 0.18% MoS_2, 0.03% Bi by o/p and from u/g. Mine closed when company declared bankruptcy. 1978: property leased by Dumagami ML. 1979-80: shaft dewatered; x-cut on 600' L extended into Preissac South Zone	507,000 at 0.19% MoS_2, 0.03% Bi 1970 (Que DP-223, p 7, 1974)	In 1979-80, Cadillac Moly mine's workings were used to access and explore adjoining Preissac property's moly zones by dd and lateral headings.
QUE-267	ATAMAN Falconbridge L (in 1971) 32 D/8 48°20.3' 78°11.4'	Nickeliferous po with cp, apparently conformable with and at the north edge of serpentinized ultramafic flows (Archean); on the overturned south limb of the Marbridge anticline.	c 1930: trenching. 1957, 61, 63: mag, EM, resistivity surveys. 1961-63: dd.	dd-ind: 1,050' x 5.9' at 0.76% Ni 1963 (Que GR 160, p 118, 1976)	
QUE-268	AUTHIER Soquem 32 D/8 48°21.6' 78°11.9'	Pegmatite, containing spodumeme, locally lithiophilite, and rarely beryl and molybdenite, lies in a septum of volcanics and sediments between the Preissac and La Motte batholiths.	1962-65: mag and EM surveys, dd.	poss: 6,400,000 at 1.14% Li_2O c 1965 (Que GR 160, p 132, 1976)	The deposit, indicated by 13 holes, is at least 1,450' long and 130' in horizontal width, has been partially tested down to 400', and is still open at both ends and at depth.
QUE-269	BILSON LA MOTTE Bilson Quebec ML (in 1975) 32 D/8 48°19.9' 78°09.2'	Apparently conformable zones of Ni, Cu and Co bearing sulphides in serpentinized Archean ultramafic flows, on the overturned SW limb of a regional anticline.	1957-59: discovery; mag, EM, resistivity surveys, trenching, sampling. 1959-70: dd. 1974: dd.	(i) North: 200' x 10.9' at 0.68% Ni (ii) Central: 250' x 5.2' at 1.37% Ni (iii) South: 150' x 8.2' at 0.81% Ni dd-ind 1970 (Que GR 160, p 120, 1976)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-270	BOUVIER Lithium Corp of America Inc (in 1953) 32 D/8 48°27.1' 78°05.9'	Pegmatite dyke in qtz-biotite schist.	1947-49: stripping, bulk sampling, concentration test. 1951, 53: dd.	1,000,000 at 20% spodumene 1953 (Que Fiche: Figuery-08, 1977)	Tonnage calculation, based on limited dd, assumes a length of 600', width of 30' and depth of 500'. Avg grade is prob overestimated since a bulk sample assayed only 1.39% LiO_2; a flotation test gave a 5.06% LiO_2 concentrate with a recovery of 68.4%.
QUE-271	DUMAGAMI Dumagami ML 32 D/8 48°15.5' 78°26.5'	Stratiform, volcano-exhalative sulphide (py, cp, sph) deposit. The zone, in rhyolitic tuff, is 1,400' long, 100' wide and contains from 15% to 100% sulphides.	1963-64: EM survey, dd. 1975-76: dd, stripping, IP survey. 1980-82: stripping, dd, metallurgical tests, feasibility studies.	(i) open pit: 635,000 at 0.078 oz/t Au, 0.25 oz/t Ag, 0.15% Cu (ii) u/g to 425': 1,400,000 at 0.093 oz/t Au, 0.25 oz/t Ag, 0.13% Cu (iii) 425' to 725': 826,000 at 0.079 oz/t Au, 0.19 oz/t Ag 1980 (Mentor Expl & Dev CL, 1981 AR)	
QUE-272	DUVAL Bérubé 32 D/8 48°22.6' 78°06.4'	A roughly zoned pegmatite dyke has a spodumene-rich core of qtz, mica and feldspar.	1955-56: mag and EM surveys, dd.	dd-ind: 75,000 at 0.78-1.45% Li_2O 1957 (Que GR 160, p 134, 1976)	
QUE-273	HEIGHT OF LAND L Bérubé (in 1973) 32 D/8 48°25.6' 78°20.7'	Moly, bismuthinite, some beryl, and occasionally the rare beryllium silicate, phenacite, occur on either side of the contact between granite and biotite schist (metasediments) at the west rim of the La Motte batholith, most frequently in pegmatites and veins of pegmatitic qtz.	1906: discovery, staking. 1907: shaft sunk 74' with 87' lateral advance from its bottom. 1914: second shaft sunk 55' and some ore stoped, cobbed and shipped. 1966-68: dd.	ind: 218,520 at 0.20% MoS_2, 0.047% Bi 1968 (CMH 1969-70, p 237)	
QUE-274	INTERNATIONAL LITHIUM Radiore Uranium ML (in 1964) 32 D/8 48°27.0' 78°05.3'	The main spodumene deposit consists of a number of pegmatite dykes along a sedimentary-volcanic contact, north of the La Motte batholith. The dykes also carry minor beryl, molybdenite, and columbite-tantalite.	1954-55: dd by Int'l Lithium Mng Corp L for Li. 1963-64: mag and EM surveys, dd in search for Ni.	dd-ind: 135,000 at 0.95% Li_2O 1954 (Que SP-2, p 106, 1967)	The deposit is mostly under the waters of Harricana River.

QUE-275	ELLISON Lynx-Canada Expls L & Dejour ML 32 D/8 48°15.2' 78°28.5'	The deposit lies within the same volcanics sequence and between the Doyon and Bousquet mines. While details on this deposit are N/A, it may be on strike with the nearby Thompson-Bousquet (No. 5) deposit where Au occurs in a stratabound pyrite lens in pyroclastics.	1945: dd. 1980-81: dd.	156,900 dd-ind at 0.22 oz/t Au and 159,200 dd-inf at 0.24 oz/t Au to 700' 1981 (NM 04/02/82)	Avg true width of the zone is 7.4' with deepest intersection at 900'.
QUE-276	MOLY HILL Moly Hill Mng Corp L (in 1968) 32 D/8 48°18.2' 78°12.4'	Mo-Bi sulphides erratically distributed along 700' in pegmatite and pegmatitic qtz veins.	1939: bulk sampling, dd. 1941-42: trenches and pits. 1957-59: dd. 1963: trenches and pits, flotation tests. 1965-66: dd.	(i) 110,088 for o/p at 0.22% MoS_2, 0.61% Bi (ii) 162,316, available u/g to 225', at 0.22% MoS_2, 0.079% Bi (iii) 3,405,604 elsewhere, at 0.01-0.10% MoS_2 1966 (G H Dumont 25/01/66 rept to Moly Hill Mng Corp L)	
QUE-277	NEWCONEX FIGUERY Newconex Cdn Expl L (in 1975) 32 D/8 48°28'45" 78°10'15"	Stratiform sulphide (py, sph, cp, gal) deposit formed by volcanic exhalation, with subsequent sulphide remobilization. Sph and cp occur in massive veinlets cutting a massive py body of 500-600' by 15-20' by 600-700' deep.	1962: geol and mag surveys. 1973: ground mag and EM. 1973-74: dd.	dd-ind: 500,000 at 5% Zn, 2 oz/t Ag 1974 (Que Fiche: V-Fig-2, 1975)	
QUE-278	PREISSAC Dumagami ML 32 D/8 48°19.3' 78°22.9' (South Zone)	In the North Contact zone (Preissac shaft area), moly, native bismuth and bismuthinite occur mainly in qtz veins, which are often composite with pegmatite dykes, on either side of the contact between granite and biotite-hornblende schists (metamorphosed basic volcanics). The South Zone and Blueberry Vein, located 2 mi farther SE, are on the NW extensions of former Cadillac Moly mine, where the deposits are similar to those at the Preissac shaft.	1909-16: trenches and test pits. 1918-19: prospect shaft sunk and 100-ton mill constructed. 1943-44: dd, decline driven with lateral advance and stopes on one level, 400-ton mill erected and treated 69,000 tons ore. 1956-57: dd. 1960-63, 67: shaft sunk 1,335' with 8 levels. 1963-64: 600-ton mill constructed, its capacity doubled in 1965. 1964-71: u/g mng, mostly above 700', prod 2,300,000 at 0.305% MoS_2, 0.03% Bi. 1979-80: dd from Cadillac Moly's 300' and 600' L's on (ii) and (iii). X-cut extended on 600'L into (ii).	(i) North Contact zone: 1,105,000 at 0.31% MoS_2, 0.024% Bi above 1,000' 1971 (ii) South Zone: 322,549 at 0.45% MoS_2 1980 (iii) Blueberry Vein: 174,114 at 0.27% MoS_2 1980 (Mentor Expl & Dev CL, 1978 and 1979 AR's)	The South zone contains 0.016-0.019% Bi.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-279	QUEBEC BERYLLIUM Quebec Beryllium L (in 1955) 32 D/8 48°26.2' 78°08.0'	Beryl, mica and columbite-tantalite occur in a number of pegmatite dykes.	1954-55: unstated.	5,000,000 at 0.3% beryl 1955 (Que DP-184, p 45, 1974)	The tonnage is stated to be contained in 11 pegmatite dykes, from 1' to 60' wide. The prospect did not rate a mention in J.I. Sharpe's report (Que PR 446, 1961) of the area.
QUE-280	AMOS (CONIGO) Jonpol Explo L 32 D/9 48°35.8' 78°03.5'	Stratiform, volcanogenic py, cp, sph in acidic pyroclastics. 4 zones in a length of 2,000'.	1913: discovery. 1916: prospect shaft sunk. 1926-27: Jay shaft sunk 1,260', advance on 4 levels. 1946: mag and SP surveys. 1950-51, 56-57, 67-69, 72: dd. 1968-70: EM, mag and IP surveys. 1980-81: IP survey, dd.	dd-ind: 3,222,297 at 1.16% Cu, 0.80 oz/t Ag plus some Zn in 4 zones 1969 (CMH 1980-81, p 28)	Standard flotation tests gave suitable concentrates grading 18.5% Cu and 12.2 oz/t Ag. Under option by Getty Cdn Mtls L since 1981.
QUE-281	DUMONT (LAUNAY-TRECESSON) Dumont Nickel Corp 32 D/9 48°39' 78°26'	Finely disseminated heazlewoodite, millerite, pn and awaruite with magnetite, within a mafic-ultramafic belt 4.5 mi long and 2,000' wide. The central core of the intrusive, 30' to 100' wide, composed of serpentinized dunite, carries the highest Ni values. Iron sulphides are conspicuously lacking. The deposit probably originates by magmatic segregation.	1950: mag survey, dd. 1956: dd. 1959-60: mag and EM surveys, dd. 1968-72: dd, Ni recovery tests, feasibility study. 1973-74: metallurgical tests. 1982: dd for metallurgical testing.	350,000,000 at 0.34% Ni to 1,000' or Central Zone only: 15,500,000 at 0.646% Ni after dilution to 1,500' 1972 (CMH 1979-80, p 100)	Low-grade deposit that would require large scale mining. Start-up costs for a 50,000 tpd operation were estimated at $300 million c 1974. Bench scale and pilot plant tests by Timiskaming Nickel L gave 70-80% Ni recoveries in 8-20% concentrate.
QUE-282	LYNDHURST Jack Stock 32 D/10 48°34.3' 78°57.7'	Lenticular concentration of py, cp within a shear in a rhyolitic agglomerate.	1926: trenching, Radiore survey, dd. 1930: shaft sunk 120'. 1937: dd. 1946, 48: dd, mag and SP surveys. 1950-52: dd. 1955: shaft sunk 709' with 5 levels. 1956-57: shipped 156,000 to Beattie mill, recovering 1.78% Cu, 0.33 oz/t Ag, 0.001 oz/t Au 1970: geoph survey.	65,000 at 2% Cu 1957 (Que SP-4, p 114, 1969)	

QUE-283	BEATTIE MINE Eldorado GM Inc 32 D/11 48°30.6' 79°14.2'	The principal orebodies occur at, or on either side of, the contact between the Beattie intrusive syenite porphyry and adjoining tuffs and volcanics. Most of the ore is a breccia of altered and bleached tuffs cemented by a network of fine-grained qtz and carb stringers, mineralized with auriferous py and asp.	1930-31: discovery, dd. 1932: two shafts sunk opening 6 levels. 1933-56: Prod 10,700,000 at 0.126 oz/t Au from Beattie and Donchester sections. 1939-40, 55: winze sunk to 1,075 with 7 new levels. 1943: glory hole caved in filling u/g workings with clay, resulting in suspension of prod for 2.5 yrs while clean-up was underway.	2,270,000 at 0.131 oz/t Au 1943 (NM 27/02/47)	These resources remained in the glory hole and underlying stopes, buried in clay and sealed off after the disastrous cave-in of 1943. It is possible that some of this tonnage was accessed and mined before the shut-down in 1956. Only about one third of the gold mined occurred in the free state. The flotation concentrate required roasting and in the process arsenious trioxide was recovered.
QUE-284	CENTRAL DUPARQUET (DALEMBERT) Soquem (60%) & Instituto Nacional de Industria (40%) 32 D/11 48°30.2' 79°11.7'	Gold occurs in lenses, mainly with fine-grained py and asp, in a narrow band of greenstone and the enclosing Beattie and syenite porphyries along a shear subsidiary to the Central Duparquet fault.	1924-35: surface work, dd, two shallow shafts - on gold occurrences outside the main one. 1935: discovery of main zone by dd. 1937-39, 41: main shaft sunk 1,000' with 5 levels, dev u/g. 1945-46: surface dd. 1974-75: mag and IP surveys, minor dd by Louvem. 1978-82: dd.	900,000 at 0.16 oz/t Au 1982 (Y Vezina, oral 02/02/83)	The Central Duparquet shaft is connected on 1,000' level with Beattie and Donchester mine workings.
QUE-285	HUNTER MINE Eldorado GM Inc 32 D/11 48°33.1' 79°08.4'	Cp associated with qtz veinlets in fractured acidic volcanics. Mineralization weakens between 900-1,500' depths, then strengthens again between 1,500' and 1,800'. Little geological information available.	1928-32: trenching, dd. 1945: trenching, dd. 1955: dd. 1955-56: shaft sunk 747' with 4 levels. 1957: shipped 130,000 at 0.995% Cu to Beattie mill. 1964-65: deep dd.	proven: 140,000 at 1.06% Cu above 600'; prob: 94,000 at 1.06% Cu between 600' and 1,000'; poss: 120,000 at 1.99% Cu between 1,400' and 1,800' 1965 (Fundy Chemical Int'l L, brochure 29/01/73)	
QUE-286	DUVAN Y Vezina 32 D/14 48°53.4' 79°25.8'	Massive sulphides: py, bornite, cp, in a conformable zone, 120' long and 1' wide in qtzite and greywacke.	1928: discovery, trenches, pits. 1952-59: mag survey, dd. 1956-57: shaft sunk 1,000' with 5 levels, u/g dev. 1960: shaft dewatered, 3,000 tons Cu-Ag ore shipped to Noranda smelter.	111,543 at 2.74% Cu, 2.96 oz/t Ag 1960 (Y Vezina, oral 2/02/83)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-287	ABITIBI ASBESTOS Abitibi Asb Mng CL 32 E/1 49°11'35" 78°02'14"	Cross-fibre chrysotile. About 85% of fibre in lengths from 1/16 to 1/4 inch. In serpentinized peridotite body. Deposit has U-shaped cross-section.	1958: airborne mag and EM. 1963: ground mag, dd. 1966, 68-69: dd, milling tests of cores. 1969: shaft sunk, u/g bulk samples tested. 1972-74: further bulk sample extraction and testing in on-site pilot plant; market studies. 1975-76: feasibility study. 1978-79: dd outside the main zone.	106,700,000 at 2.8% recoverable Asb fibre (30% 4T, 25% 5R, 35% 6D, 10% 7D) 1974 (Brinco L, 1979 AR)	Brinco holds 59% interest. Require $300 million (1976) to bring property to production. Review of technical designs and of costs was made in 1980.
QUE-288	ROLLMAC Int'l Standard Res L 32 E/3 49°00.9' 79°07.0'	Au in free state within a qtz vein zone, 2'-6' wide, in granitic rocks.	late 1920's: discovery, trenching, 45' shaft. 1954,58,64,75: resampling shaft and trenches. 1968,75,79: geoph surveys. 1979-80: dd. 1975,80: shipped 87.8 t bulk samples and dump are at 0.40 oz/t Au, 2.71 oz/t Ag. 1980-81: spiral decline extended 1,443' with 2,019' x-cuts and subdrifts; bulk sampling, dd; shipped 2,987 at 0.257 oz/t Au to Louvem mill; workings then flooded.	spec: 39,600 at 0.40 oz/t Au 1981 (G J Hinse, 25/11/82 rept in VSE SMF 21/83, Int'l Standard Res L)	Plans to resume u/g work in 1983 and erect a 100 tpd mill.
QUE-289	CONS. NORTHERN EXPLORATION (KELLY-DESMOND) Explo-Zinc Inc 32 E/8 49°26.1' 78°19.9'	Py, sph, cp in a rhyolite breccia.	1962: mag-EM surveys, trenching. 1963-64: mag-EM surveys, dd, discovery. 1964-66: shaft sunk 1,286' with 5 levels, lateral headings, u/g dd. 1969: shaft dewatered, drifting on 1,150' level, dd. 1975: re-evaluation.	1,099,110 at 6.95% Zn, 0.73% Cu, 1 oz/t Ag to 900' 1965 (CMH 1979-80, p 108)	Awaits improved metal prices.
QUE-290	JOUTEL COPPER Joutel Res L 32 E/8 49°27.2' 78°21.2'	Massive to disseminated sulphides (py, po, cp, sph) in several cp-rich lenses and one sph-rich lens, in rhyolite. Probable origin was by volcanic exhalation, with subsequent remobilization of sulphides along shears.	1959-61: mag and EM surveys, dd. 1963-65: shaft sunk 1,075' with 2 levels, surface and u/g dd. 1967-75: shipped 1,400,000 at 2.16% Cu and 410,000 at 8.88% Zn to Mines de Poirier Inc. 1980: dd.	(i) Copper zone: 37,300 at 1.8% Cu (ii) Zinc zone: 29,500 at 6.1% Zn 1975 (Que DP-346(v), pt E, p 17, 1976)	The mine area is said to have been thoroughly investigated leaving little chance of finding more ore. In 1979, Soquem acquired an option on 60% interest in the mine property and by Oct. 1980 spent $130,000.

QUE-291	POIRIER MINE Rio Algom L 32 E/8 49°26.6' 78°23.3'	Volcanogenic stratiform sulphide (po, py, cp, sph) deposit in rhyolite, comprised of massive to disseminated sulphide lenses, some cp-rich, others sph-rich.	1959-60: airborne and ground mag-EM surveys, dd. 1962: dd. 1963, 64, 68: shaft sunk 2,850' with 18 levels. 1965-75: prod 4,700,000 at 2.22% Cu and 750,000 at 5.58% Zn and 0.33% Cu.	(i) Copper orebodies: 752,143 proven at 2.22% Cu and 90,000 prob at 2.02% Cu (ii) Zinc orebodies: 490,000 proven at 11.2% Zn and 300,000 prob at 9.2% Zn 1975 (Que DP-346(v), pt E, p 16, 1976)	The mill and surface plant were sold in 1976 to Selco Mng Corp L. Reopening of the mine would be likely with improvement of metal prices.
QUE-292	DETOUR PROJECT (LES MINES SELBAIE) Selco Inc (67%) and Hudson's Bay Oil & Gas CL (33%) 32 E/15 49°48.0' 78°56.6'	Three separate sulphide (py, sph, cp) deposits consist of epigenetic qtz-carb vein systems in rhyolitic tuffs and breccias. Origin is probably by hydrothermal activity during late stages of acid volcanism.	1958, 71-72: airborne geoph surveys. 1973: ground geoph. 1974-75: dd. 1976-78: decline sunk on A-1 zone with lateral advances at 200' depth; shaft sunk 440' on B zone with advance on 325' level; metallurgical tests and feasibility studies. 1979-81: u/g and surf prep of B zone for prod. 1981: prod from B-zone.	(i) A-1: 32,100,000 mt at 0.39% Cu, 2.30% Zn, 35.66 g/t Ag, 0.3 g/t Au 1975 (NM 19/06/75) (ii) A-2: 5,000,000 mt at 2.02% Cu, 1.33% Zn, 11.3 g Ag/t, 1.11 g/t Au 1978 (Que Fiche: Brouillan-01, 1978)	Production from B zone started in 1981. A-1 zone is near-surface and flattish, some 400 m in diameter and 180 m thick, which will permit eventual extraction by o/p.
QUE-293	PHELPS DODGE - LA GAUCHETIERE TP Noranda ML 32 E/16 49°45.9' 78°10.0'	Probably a stratiform volcanogenic sulphide deposit.	pre-1973: airborne and ground geophysics. 1974: dd. 1976-77: preparations to sink a shaft and adit.	dd-ind: 1,700,000 at 1.1% Cu, 4.9% Zn, minor Ag 1979 (Noranda ML, 1979 AR)	Startup, originally slated for early 1982, was deferred due to depressed metal prices.
QUE-294	LABONTE Rochelom ML 32 F/2 49°01.0' 76°40.8'	Gold in qtz veins in a shear cutting across a granite-volcanics contact.	1949: trenching and sampling of North and South zones. 1966: some work on North zone. 1972: EM survey. 1973-74: dd.	400' x 5' at 0.12 oz/t Au in South zone 1949 (Que Fiche: Verneuil-1, 1977)	The reported dimensions and grade were based on trench sampling. Drilling of 8 holes on North zone and 4 holes on Scuth zone was proposed in early 1973. Results are not known.
QUE-295	FLORDIN Flordin ML 32 F/7 49°18.3' 76°55.0'	Qtz veins and vein zones, containing some pyrite and erratically distributed free gold occur in volcanic flows and tuffs, along shears, over a strike distance of 2 mi.	1935-36: discovery, trenching, sampling, dd. 1939-40: surface work, dd, shaft sunk 375' with 900' lateral advance on 2 levels. 1964: EM survey. 1981-82: dd.	500,000 at 0.176 oz/t Au, across 6.4' to 900' 1982 (Soquem, 1st Quarter Rept, 1982-83)	Optioned by the Sullivan Mng Gp in 1981, when dd jointly with Soquem gave encouraging results.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-296	CERTAC (LAC CERE) Certac Mng Corp 32 F/8 49°24.6' 76°04.5'	Ms to ds py, cp lenses in a small body of granite intruding volcanics.	1949: pits. 1951: pits, SP survey. 1953: dd. 1962: mag-EM survey. 1965: mag-EM survey, dd.	492,944 at 0.5-1.0% Cu, 0.18 oz/t Ag, 0.08 oz/t Au 1978 (WM February 1980)	A mill on the property operated from May 29 to July 31, 1980 when ops ceased.
QUE-297	CONIAGAS MINE The Coniagas ML 32 F/8 48°29.9' 76°09.8'	Massive to disseminated py, sph, gal in stratiform lenses within pyroclastics, probably derived by volcanic exhalation.	1947: discovery, trenching, dd. 1948-51: mag survey, dd. 1956-58: shaft sunk 1,368' with 8 levels, 3,841' lateral work, dd. 1960: shaft dewatered, construction of prod facilities. 1961-67: prod 718,000 at 10.8% Zn, 1.1% Pb, 5.3 oz/t Ag. 1974-75: experimental bacterial leaching of tailings. 1976: dd. 1979-81: dd.	84,330 positive at 5.91% Zn, 1.62 oz/t Ag, plus 79,000 prob at 4.49% Zn, 2.27 oz/t Ag, and 85,072 tailings at 2.2% Zn, 3.15 oz/t Ag 1967 (The Coniagas ML, 1967 AR)	Under option by Corp Falconbridge Copper which can earn 60% int in property by 1983.
QUE-298	EMPIRE LE TAC Soquem (45% int. in 1973) 32 F/8 49°26.8' 76°09.5'	Py, po, cp, sph disseminated in pyroclastics. Probably volcanogenic.	1949: trenching and sampling. 1952: dd. 1956: mag and EM surveys, dd. 1970: EM survey. 1972-73: EM and IP surveys, dd.	(i) No. 3: 260,000 at 3% Zn to 400' (ii) No. 3 West: 63,000 at 1.40% Cu, 0.92 oz/t Ag, plus 33,000 at 2.50% Zn 1952 (Que SP-2, pp 168-169, 1967)	
QUE-299	NICOBI LAKE (MT. PINCOURT) V Audet 32 F/8 49°18.1' 76°05.8'	Py, po, cp, pn in disseminated grains in gabbro. Probably a replacement.	1956: prospecting. 1959: airborne and ground mag and EM surveys, dd. 1966-67: IP survey, dd. 1975: re-evaluation by Noranda.	1,805,213 at 0.467% Ni, 0.255% Cu 1975 (Que DP-346(v), pt C, p 22, 1976).	
QUE-300	SOMA-ALTA Soquem (in 1973) 32 F/8 49°25'31" 76°08'12"	Stratiform; disseminated sph, py and po in felsic pyroclastics. The zone, explored over a length of 360' and down to 350', averages 3' in width and is open to NW.	1952-53: geol survey, dd.	dd-ind: 35,000 at 2.7% Zn plus minor Au, Ag 1953 (Que GM-2574, 1954)	
QUE-301	ALLARD RIVER Provinces X Expl L (in 1970) 32 F/12 49°36.5' 77°56.1'	Disseminated py, po, cp, gal in schists derived from either or both pyroclastics and sediments. Mineralization is in a pipe-like zone, with a 225' by 150' cross-section, extending to at least a depth of 550'.	1946, 56-58, 70: dd.	495,000 at 0.75% Cu 1970 (NM 25/07/70)	Geoph work completed, apparently on this property, in spring of 1982 by Bruneau Mng Corp in a joint venture with Amax. Dd was to follow.

QUE-302	LYNX (OBASKA) Lynx Yellowknife GML (in 1974) 32 F/12 49°38.8' 77°43.3'	Massive and disseminated sulphides in acid pyroclastics. Probably volcanogenic.	1959: mag and EM surveys, dd. 1961, 65, 74: dd.	dd-ind: 225,000 at 1.60% Cu, 0.35% Zn plus Au-Ag 1965 (NM 2/06/66)	
QUE-303	MATTAGAMI LAKE Ni-Cu Noranda ML 32 F/12 49°43.3' 77°43.0'	Disseminated Ni-Cu in an altered intrusive peridotite body, at least 2,000' wide, occurring north of the pyroclastics containing the Zn-Cu orebodies.	Drilling in 1968 and presumably before and after. Mining of the neighbouring Zn-Cu orebodies started in 1963.	3,000,000 at 0.80% Ni-Cu 1968 (Mattagami Lake ML, 1968 AR) or 546,970 at 0.39% Ni, 0.28% Cu (NM 21/03/74)	Accessible from u/g workings of the Mattagami mine.
QUE-304	BELL CHANNEL Bell Channel ML 32 F/13 49°46.2' 77°37.4'	Volcanogenic, stratiform, massive sulphide (py, po, cp, sph) deposit, 5-40' wide, 300' long and 260' deep; in tuffs.	1957: mag and EM surveys. 1960-61: dd. 1973-75: dd.	90,500 at 1.95% Cu, 0.57% Zn 1961 (Que PR 527, p 12, 1964)	The deposit is located off an island in Bell River, near the LG-2 road bridge, 1 mi N of the town of Matagami.
QUE-305	GARON LAKE Noranda ML 32 F/13 49°45.4' 77°34.1'	Stratiform, volcanogenic sulphide (po, py, cp, sph) deposit, comprised of three main lenses, in acidic tuffs.	1956-57: airborne and ground mag-EM surveys. 1958-59: dd. 1966-67: mag and EM surveys, dd. 1970: inclined ramp with u/g dev. 1973-75: shipped 515,000 at 2.22% Zn, 1.45% Cu to Orchan mill. 1981-82: dd.	dd-ind: 50,000 at unstated grade of Zn-Cu-Ag-Au 1975 (Orchan ML, 1975 AR)	Most of the tonnage is what remains below 250' level in A and C zones. Limited dd in 1981 showed interesting values on east extension of deposit.
QUE-306	NEW HOSCO New Hosco ML (in 1978) 32 F/13 49°47.4' 77°50.1'	Volcanogenic sulphide (py, po, cp, sph) deposit in pyroclastics. The main zone is 1,000' long, 200-300' wide and at least 1,000' deep. A central cp zone is enveloped by iron sulphides, with sph concentrated on the HW side.	1958-60: ground mag, EM, gravity surveys, dd. 1962: shaft sunk 1,060' with 9 levels. 1963-70: shipped 2,000,000 at 1.18% Zn, 1.41% Cu to Orchan mill.	250,000 at 1% Cu 1970 (Que Fiche: V-Dan-1, 1975)	
QUE-307	GALENA VEIN Rochelom ML (in 1974) 32 F/16 49°46.3' 76°02.1'	A vertical qtz vein, 12-15" wide, containing some gal and visible gold, within an amphibolitized volcanic inlier in gabbro.	1948-49: discovery, trenching. sampling, mag survey. 1950: dd. 1973: bulk sampling.	355' x 2.12' at 0.37 oz/t Au 1973 (NM 09/05/74)	Grade determined by analysis of a 5-ton bulk sample of the vein, stated to be representative of the given surface dimensions.
QUE-308	MESTON LAKE Meston Lake Res Inc 32 G/7 49°28.7' 74°30.1'	Gold in qtz-tourmaline veins filling fractures in altered sericitic granite.	1951: dd. 1952: mag survey, dd. 1973-74: dd. 1974: 1,000' decline driven, cyanidation tests on bulk sample. 1977-78: mag-EM surveys, dd. 1981: dd.	1,350,000 at 0.15 oz/t Au 1974 (NM 28/03/74)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-309	JOE MANN (CHIBEX) MINE Meston Lake Res Inc 32 G/8 42°29.3' 74°26.2	Three parallel shears, along and on either side of the contact between a grabbro sill and metavolcanics, carry disseminated py with some po, cp and gold in associated qtz stringers. The mineralized zones extend for a length of at least 1 mi.	1950: discovery, trenching, resistivity survey. 1951-52: dd. 1952-54, 59: shaft sunk 1,925' with 12 levels, u/g dev. 1954: 500 tpd mill constructed. 1956-60: prod 685,000 at 0.218 oz/t Au, 0.17 oz/t Ag, 0.488% Cu; closed due to financial problems. 1971-73: airborne and ground mag-EM surveys, dd, decline driven into West Extension zone, feasibility studies. 1974-75: new mill erected, prod 160,000 at 0.15 oz/t Au, 0.4% Cu; closed because of poor Au recoveries. 1980-81: rehabilitation of surface plant, dewatering.	proven, prob and poss: 5,053,568 at 0.200 oz/t Au, 0.48% Cu to 1,800' 1972 (R E Schaaf 28/04/72, rept to Chibex L) or proven and prob: 1,207,619 at 0.229 oz/t Au, 0.51% Cu to 1,350' 1973 (R E Schaaf 4/06/73, rept to Chibex L) or 551,810 proven at 0.198 oz/t Au, 0.39% Cu with 25% dil above 1,500' 1981 (NM 19/03/81)	First two estimates use a 0.10 oz/t Au cut-off and a dilution factor of 25%. Subsequent production of 160,000 tons should be deducted from both. The first estimate embraces the Main, North, South, Western Extension and Uddlen zones; the second: Main and North zones. In September 1979, Meston Lake Res Inc and James Bay Dev Corp agreed to jontly resume operations. Dispute between partners resulted in suspension of work and flooding of mine early in 1982.
QUE-310	MILLS (JAMES LAKE) James Bay Dev Corp & Sullivan Mng Gp 32 G/8 49°29.9' 74°24.0'	Two qtz veins in parallel shears within an amphibolitized gabbro sill, both traced 1,000'. The veins carry c 0.25% Cu in addition to Au.	1951: discovery, trenching. 1952, 54: mag-EM surveys. 1955-56,60,80-81: dd.	(i) North: 65,632 mt at 3.87 g/t Au above 90 (ii) South: 105,287 mt at 1.95 g/t Au above 90 m 1981 (Sullivan Mng Gp L, 1981 AR)	
QUE-311	WINDY (DES VENTS) LAKE Chasm ML 32 G/10 49°30.1' 74°54.2'	Heavy to disseminated py, po, cp in pyroclastics along the contact with a mafic sill.	1947-48: mag and resistivity surveys, trenching, dd. 1956: mag survey, trench sampling, dd. 1972: EM survey, dd.	15,400 at 1.88% Cu in 2 shoots 1956 (Que SP-2, p 161, 1967)	
QUE-312	SHORTT LAKE Corp Falconbridge Copper 32 G/12 49°37.3' 75°52.0'	Deposit occurs near the base of a 50 m wide alteration zone in tuffs atop a volcanic vent. The zone is made up largely of potash feldspars and dolomite where gold is associated with fine pyrite (3-5%).	1946: prospecting, dd. 1957: mag and SP surveys. 1964, 66-67: dd. 1977: VLF survey, dd. 1979-81: dd. 1981-82: shaft sunk, 1,120' u/g expln.	700,000 at 0.186 oz/t Au to 900' 1980 (Corp Falconbridge Copper, 1981 AR)	Opawica Expls L is entitled to a 7½% royalty on any net production proceeds.
QUE-313	LA RIBOURDE-SAUSSURE Umex Inc and Cdn Nickel CL (in 1980) 32 G/13 49°49.0' 75°31.4'	Stratiform, massive py-po with sph and cp in metasedimentary sericitic and graphitic schists.	1969-70: airborne and ground mag and EM; dd. 1973: gravity survey. 1974: dd.	dd-ind: 450,000 at 1.35% Cu, 2.73% Zn, 1.24 oz/t Ag, minor Au 1974 (Umex 1977, written commun)	Nearest potential custom mill at Chapais (Corp Falconbridge Copper), 30 mi by road.

QUE-314	CHIBOUG COPPER Chiboug Copper Corp L 32 G/15 49°47.4' 74°48.8'	The Main zone is a tabular body of massive to disseminated sulphides (mainly py, cp) averaging about 4' in thickness on the property, where it is 400' long and at least 500' deep. It occurs within a shear in a diorite sill, near its footwall contact with tuffs and extends westward across the property boundary into Corp Falconbridge Copper's Cooke mine.	1936: mag-EM survey, trenching. 1946-53: partial mag and resistivity coverage, minor dd. 1955-61: extensive geoph survey coverage and dd; Main zone discovered in 1957. 1963-64: minor geoph and dd. 1969: dd - mostly on Main zone. 1972: part of property tested by geoph with dd follow-up. 1976: option-purchase deal granted to Falconbridge Copper L. 1977: drives extended into property from Cooke mine to establish drilling stations for deep-testing Main zone.	dd-ind: 170,000 at 1.42% Cu, 0.15 oz/t Au, 0.57 oz/t Ag, with 15% dilution, to 500' 1969 (Chiboug Copper Corp L, 1969 AR)	Corp Falconbridge Copper was to acquire the property after expending $400,000, subject to royalty payments to Chiboug Copper. Info on dev in 1979-82 N/A.
QUE-315	OPEMISCA EXPLORERS Camchib Res Inc 32 G/15 49°45.5' 74°50.8'	A sub-vertical zone of massive, very fine-grained py and some po, with minor cp, sph, in felsic tuffs, traced for a 4,800' length, over widths of 30-125'. Probably syngenetic, volcano-exhalative, deposit.	1952-56: mag EM and resistivity surveys, dd. 1977: EM.	10,000,000 at 70% py-po to 1,000' 1956 (Que Map 1686, 1970)	A chemical analysis of 150' of continuous drill core reportedly showed the sulphides to contain 41.22% Fe and 45.51% S.
QUE-316	SELCO-SCOTT Camchib Res Inc 32 G/15 49°51'52" 74°37'47"	Volcanogenic banded, massive to disseminated sulphides (py, sph, cp, gal) in tuff at the contact with granodiorite porphyry. 500' x 3-20' x 1,000' deep, thinning with depth and west, cut off by a fault at east end; extension not found by dd in 1978.	1976: INPUT, follow-up ground EM. 1976-78: dd. 1981: fill-in dd.	dd-ind: 747,000 at 6.91% Zn, 0.55% Cu, 0.38 oz/t Ag, 0.006 oz/t Au to 1,000' 1977 (NM 02/03/78, Rio Algom L, 1978 AR)	An increase of 50% in the available tonnage was indicated by drilling in 1981. A possible shipper, awaiting improvement in metal prices.
QUE-317	ANTOINETTE LAKE (TACHÉ LAKE) Francana Oil & Gas L 32 G/16 49°56.5' 74°24.3'	The two zones occur in pyroclastics at the contact with a serpentinized ultramafic sill. Massive to disseminated py, po, sph. Possibly of volcanic origin with some subsequent remobilization.	1929-30: discovery of Berrigan, rock trenching, sampling, dd. 1948, 52-53: dd on North and Berrigan zones. 1956-57: mag and resistivity surveys, dd. 1965-66: mag and EM surveys, dd. 1968-69: adit driven into North zone with 500' advance, dd. 1977: dd in Berrigan zone. 1981: decline driven on North zone, dd, bulk sampling, metallurgical tests.	(i) North Zone: 200-400,000 at 4-6% Zn, 0.05-0.08 oz/t Au, 0.5-0.8 oz/t Ag 1981 (Camchib Res Inc, 1981 release) (ii) Berrigan Zone: 285,600 prob at 3.05% Zn, 0.017 oz/t Au 1951 (Que SP-2, p 188, 1967)	The results of u/g work in 1968-69 failed to confirm earlier surface dd indications in North zone. Drilling of 5,000' on the Berrigan zone in 1977 did not establish a commercial orebody, according to the company. Camchib Res Inc optioned 75% int in 1981.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-318	ASBESTOS ISLAND Chibougamau Asbestos L 32 G/16 49°57.9' 74°09.2'	Cross-fibre and slip-fibre chrysotile veinlets in serpentinized dunite. No 1 zone has surface dimensions of 500' by 400'.	1904: discovery, trenching. 1954: mag survey, dd. 1956-57: stripping, trenching, sampling, dd. 1960-63: surface exploration.	6,500,000 at 7.22% Asb in No. 1 zone plus 3,000,000 at unstated Asb grade in another zone 1957 (NM 7/03/57, 10/04/58)	
QUE-319	BATEMAN BAY Bateman Bay Mng C 32 G/16 49°54.2' 79°14.8'	Disseminated sulphides in lenses in fracture zones in anorthosite of the Lac Doré complex. The two principal zones are 3,000' apart.	1936: EM survey, dd. 1955-57: mag, resistivity and EM surveys, dd. 1957-60: shaft sunk with 3 levels, u/g dev, surface and u/g dd. 1959-60: shipped 15,000 at 2.0% Cu, 0.46 oz/t Ag, 0.07 oz/t Au to Merrill mill. 1967-70: drive extended on Jaculet mine's 900' level into Bateman whose shaft was extended to meet it, dd. 1970, 77: minor extraction, mine flooded in 1977.	(i) Mine area: 50,000 at 1.61% Cu, 0.025 oz/t Au 1970 (Patino Mng Corp, 1970 AR) (ii) C zone: 183,200 at 1.65% Cu, 0.048 oz/t Au, 0.187 oz/t Ag 1957 (Que GR 95, p 68, 1960)	Inadequate published information suggests that drilling done by Patino on C zone since the late 1960's has possibly invalidated the previous estimate. The property is held under lease by Northgate Patino M Inc.
QUE-320	BRUNEAU Bruneau Mng Corp 32 G/16 49°56.1' 74°15.0'	Three principal cp-rich veins with, py, po, qtz and carb; in mafic pillow lavas and felsic pyroclastics. 'A' vein was 500' long, 5' wide and 400' deep.	1947: dd. 1951-52: mag and resistivity surveys, dd. 1960-65: EM survey, dd, u/g workings from 2 adits. 1966-68: shipped 69,000 at 1.52% Cu, 0.02 oz/t Au to Merrill and Campbell mills. 1975: geoph surveys, dd. 1979-81: dd.	(i) Copper: 36,000 blocked out at 1.47% Cu, 0.02 oz/t Au 1968 (Bruneau Mng Corp, 1970 AR) (ii) Gold: 220' x 4' at 0.39 oz/t Au ind by 3 holes above lower adit level pre-1970 ? (NM 18/10/79)	Under 25-year lease since 1975 by Muscocho Expls L. Dd in 1979 disclosed two new (?) N-S zones east of the mine, one of Cu, the other of Au.
QUE-321	CHIB-KAYRAND Camchib Res Inc 32 G/16 49°51.8' 74°20.5'	Cp, po, py occur in and along a qtz diorite dyke intruding a shear in anorthosite breccia of the Lac Doré complex.	1944-50, 56-57, 59: dd, mag and EM surveys. 1965-75: prod c 150,000 at 1.3% Cu via u/g working of Merrill's and Campbell's Original mines.	12,252 proven at 2.29% Cu, 0.003 oz/t Au 1980 (Campbell Chibougamau ML, note to Que 26/07/80)	Chib-Kayrand's workings were flooded early 1978 along with those of other mines of Original Mine Division.
QUE-322	COPPER CLIFF MINE Northgate Patino M Inc 32 G/16 49°54.1' 74°18.2'	Cp in massive stringers, mainly in walls of dykes intruding shears in anorthosite of the Lac Doré complex. Two main zones were mined, 2,000' apart, the Copper Cliff and North Siderite.	1929: discovery, trenching, dd. 1948-53: dd. 1955-56, 68-69: shaft to 1,730' with 7 levels. 1970-74: shipped 953,000 at 1.6% Cu to Copper Rand mill. 1975: mine flooded.	62,000 at 1% Cu, 0.025 oz/t Au 1974 (Patino NV, 1974 AR)	

QUE-323	COPPER CLIFF SIDERITE Northgate Patino M Inc 32 G/16 49°54.1' 74°19.5'	An alteration zone along a dyke, in a fracture in gabbro of the Lac Doré complex, contains massive siderite over a length in excess of 1,000' by 10-125'. The siderite contains blebs and veins of cp, py.	1950: resistivity survey. 1952-53, 61: dd.	520,000 at 1.46% Cu or 2,000,000 at 31.3% Fe and Mn, 1% Cu 1953 (Que Fiche: C-McK-17, 1966)	
QUE-324	CORNER BAY Corner Bay Expls L 32 G/16, 9 49°45.0' 74°14.5'	Cp in a fracture zone in anorthosite of the Doré Lake complex. Initial holes cut the zone at 400'-1,000' vertical depths over a length of 2,000' and across 14' true width.	1981: discovery by dd of EM anomaly.	1,770,000 mt at 4.25% Cu, 0.01 oz/t Au, 0.41 oz/t Ag across 4.1 m, to 450 m 1982 (NM, p815, 3/03/83)	As indicated by prelim dd. Potentially much larger tonnage. Prelim tests showd recoveries of 97% Cu, 55% Au and 85% Ag.
QUE-325	DEVLIN Riocanex Inc 32 G/16 49°45.6' 74°20.0'	Cp, py, qtz, chlorite, epidote and calcite in a 8.5' thick, gently dipping, zone of closely spaced fractures in the leucocratic core of a dioritic pluton. Deposit occurs between 150' and 275' depths.	1972: INPUT survey. 1973: ground EM. 1974, 76-78, 81: dd. 1981: decline sunk, test shipments.	dd-inc: 1,007,945 at 2.45% Cu 1978 (P E Kavanagh 25/05/79, GAC/MAC Ann Mtg)	In 1981 Camchib Res Inc optioned 55% interest in property.
QUE-326	GRANDROY Camchib Res Inc 32 G/16 49°55.7' 74°12.0'	A small Archean porphyry-type deposit, consisting of a stockwork of veins, containing cp, py, mo, mag, with qtz and carb, in a stock of metatonalite. The deposit contains about 0.1% Mo.	1946-47, 52-53: mag-EM surveys, dd. 1966-67: dd, resistivity and IP surveys. 1967-68: shipped 290,000 at 1.22% Cu, 0.019 oz/t Au from o/p to Campbell's mill. 1970: dd. 1973-75: mined u/g via a decline and shipped 99,000 to Campbell's mill. 1981: dd.	125,280 proven at 1.64% Cu, 0.029 oz/t Au, and 11,045 prob at 2.21% Cu, 0.03 oz/t Au 1978 ? (Campbell Chibougamau ML, note to Que 26/07/80)	Shutdown in May 1975 resulted from a lockout of miners. Resumption of operations depends on copper prices. The remaining tonnage is exploitable u/g.
QUE-327	HEMATITE BAY Northgate Patino M Inc 32 G/16 49°55.2' 74°11.8'	Py, cp, qtz-carb in a shear in agglomerate along a contact with anorthosite.	1908: discovery. 1954-57: geoph, dd.	400,000 at 2.01% Cu 1956 (NM 24/04/58)	Located on north side of Portage Island on the Portage mine property.
QUE-328	JACULET MINE Northgate Patino M Inc 32 G/16 49°54.5' 74°16.4'	Two principal parallel zones of mineralization occur in shears in anorthosite of Lac Doré complex. Lenses of massive and disseminated py, cp are associated with dykes intrusive into the shears.	1956-59: dd, shaft sunk 707' with lateral work on 3 levels. 1960-71, 74, 77: shipped 1,200,000 at 1.92% Cu to Copper Rand mill; shaft deepened in 1963-64, 71 to 1,762' opening 7 new levels, extensive lateral advances, dd.	135,000 at 1.70% Cu, 0.025 oz/t Au to 1,200' Dec. 1974 (Patino NV, 1974 AR)	All recoverable broken ore (9,418 tons), materials and equipment were salvaged in 1977 and the mine was flooded in January 1978. The estimated remaining tonnage was delisted from Patino's reserves in 1977.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-329	KELLOGG (BISCHOFF) Soquem 32 G/16 49°49.4' 74°00.7'	Titaniferous magnetite interlayered with relatively barren layers of the basic intrusive rocks of the Lac Doré complex. The main high-grade zone is 7,200' long and up to 3,000' wide. Other lenses occur within a strike length of 5 mi.	1954: aeromag survey by Dominion Gulf C. 1955-56: trenching, sampling, mag and SP surveys. 1958: dd. 1966: presence of V discovered by analysis. 1970-76: dd, bulk sampling, metallurgical and smelting tests. 1979-80: dd, tests.	46,400,000 mt at 35.5% Fe, 9.79% TiO_2, 0.53% V_2O_5 to 100 m in East deposit or 89,000,000 mt to 100 m in 3 deposits 1979 (Soquem 1979-80 AR)	Plan eventually to extract vanadium along with iron and titanium. Extractive research was funded in part by provincial and federal governments. Tests gave a magnetic conc of 62.1% Fe, 9.25% TiO_2, 1.39% V_2O_5.
QUE-330	KOKKO CREEK Camchib Res Inc 32 G/16 49°52.9' 74°20.0'	Cp, py, po occur principally along a qtz-feldspar-porphyry dyke intruding a fracture in anorthosite of Lac Doré complex.	1906-07, 29: discovery, rock trenching, sampling. 1951-52, 56: dd. 1958: drive extended from Campbell's Original mine's 400' level. Kokko's shaft sunk 640' with 5 levels in 1958 and 1966. 1959-75: prod c 700,000 at 2.6% Cu, a small portion from o/p; some ore also mined via Original mine's 850' level.	101,889 proven at 1.44% Cu, 0.006 oz/t Au, and 25,807 prob at 1.65% Cu, 0.006 oz/t Au 1980 (Campbell Chibougamau ML, note to Que 26/07/80)	Kokko Creek's u/g workings were flooded in early 1978.
QUE-331	MERRILL ISLAND Camchib Res Inc 32 G/16 49°52.2' 74°19.8'	Several parallel fracture zones in anorthosite of the Lac Doré complex contain lenses of massive to disseminated py, cp, associated with dykes.	1920: discovery. 1936, 50-51: dd. 1952, 55-57, 61-62: shaft sunk 2,300' with 14 levels. 1958-75, 77: prod c 2,600,000 at 1.6% Cu, half the tonnage being low grade mined by o/p 1971-77.	1,650,637 proven at 0.87% Cu, 0.003 oz/t Au, and 570,287 prob at 0.79% Cu, 0.003 oz/t Au 1980 (Campbell Chibougamau ML, note to Que 26/07/80)	Available by open pit.
QUE-332	NEPTON BAY Muscocho Expls L 32 G/16 49°54.2' 74°03.2'	Cp with py, po, mo in a shear within anorthosite of Lac Doré complex.	1951: discovery. 1952-56: trenching, mag-EM, dd. 1969-71: geoph surveys. 1972,74,81: geoph, dd.	283,000 at 2.14% Cu 1974 ? (NM 02/10/80)	Deposit also contains significant Au-Ag values. Located under the waters of Chibougamau Lake.
QUE-333	NORBEAU MINE Beaurox Mines L 32 G/16 49°57.5' 74°18.3'	Qtz veins in carb shears within the Boubeau diorite sill.	1929-30: discovery, trenching. 1933-34,39: trenching, dd. 1959-60: dd, 1,000' adit. 1962: 200 tpd mill erected. 1964-65: shaft sunk 1,530', 10 L's. 1964-69: prod 163,362 oz Au, 20,282 oz Ag from 419,029 milled. 1980-81: discovery of HW vein, trenching, dd. 1981-82: shaft dewatered.	(i) Main Vein (shaft): 43,409 at 0.23 oz/t Au in 18 stopes (ii) New, Sharpe & No. 5 Veins: 1,545' x 9.6' at 0.17 oz/t Au 1982 (NM 7/10/82) or pot: 810,900 at 0.18 oz/t Au (all zones) 1982 (NM 16/12/82)	Camchib Res Inc optioned 50% int in property. Had 30,000 tons at 0.08 oz/t available as bulk sample from surface trenches. (NM 17/09/81)

QUE-334	QUEBEC CHIBOUGAMAU GOLDFIELDS Camchib Res Inc 32 G/16 49°53.2' 74°19.8'	Py, cp is associated with fine-grained basic dykes along shears in anorthosite of the Doré Lake complex.	pre-1930: discovery, pits. 1951: dd. 1955: mag, EM, SP surveys. 1955-56: dd. 1956-57: shaft sunk 847' with 5 levels, u/g dd. 1963-67: under lease by Patino shipped 207,000 at 1.78% Cu to Copper Rand mill. 1972-75: surface and u/g dev and intermittent prod. 1981: deep dd.	35,035 proven at 1.56% Cu, 0.054 oz/t Au 1980 (Campbell Chibougamau ML, note to Que 26/07/80)	Part of Camchib's Cedar Bay Division. Dd in 1981 confirmed depth extension of 'A' zone.
QUE-335	QUE CHIBOUGAMAU (COPPER RAND #3 MERRILL ISLAND) Northgate Patino Ms Inc 32 G/16 49°52'18" 74°19'18"	Py, po, cp, sph and gal as stringers and massive to disseminated lenses in a N38°W brecciated and sheared fracture zone in anorthosite. The zone was traced 400' across 5-20' widths to 1,000' depth.	1950-51: resistivity survey, 28,435' dd. 1956-57: shaft sunk 605', minor work on 3 levels.	dd-ind: 500,000 at 2.2% Cu, 1.2% Zn, 0.5 oz/t Ag 1951 (Que Fiche: C-Ob-6, 1966)	Patino has done further work in the 1960's but no results have been disclosed.
QUE-336	S-3 ZONE Camchib Res Inc (et al) 32 G/16 49°52.4' 74°12.8'	Sulphs in anorthosite and gabbro of the Lac Doré complex were intersected by dd in a length of 1,000' to 1,100' depth.	1957-59, 65-66, 79-81: dd. 1981-82: 8,000' u/g heading towards deposit started from Henderson No 1 shaft.	0.2 oz/t Au, 0.58% Cu across 7.1' (avg. of 104 intersections) 1981 (Camchib Res Inc, 1981 release) or more than 1,000,000 at 0.2 oz/t Au, 0.5% Cu 1981 (Campbell Res Inc, Interim Rept to 31/12/81)	Deposit lies under the waters of Chibougamau Lake.
QUE-337	CREVIER Soquem 32 H/7,10 49°29' 72°45'	A 9 mi by 5 mi alkaline complex has a carbonatite-biotite syenite core and a nepheline syenite inner ring, both structures containing zones of significant U, Cb, Ta, Zr, P concentration.	1975: discovery by follow-up of airborne rad anomaly. 1976: sampling. 1979: dd.	ind: 15,200,000 at 0.189% Cb_2O_5, 206 ppm Ta_2O_5; semi-ind: 17,750,000 at 0.186% Cb_2O_5, 197 ppm Ta_2O_5; inf: 29,000,000 at unstated grade; to 300 m 1981 (Soquem, 1981-82 AR)	1981-82 seeking economical methods of beneficiation and metallurgy.
QUE-338	ROBERGE LAKE McAdam Mng Corp L 32 H/13, G/16 49°58.4' 73°58.3'	Five deposits occur at intervals over 3 mi in the Roberge Lake Sill of metadunite and metaperidotite. Asbestos is predominantly slip-fibre with a small quantity of cross-fibre.	1955-56: trenching, sampling, dd. 1961-65: mag survey, dd, mill tests. 1968: shaft to 200' and 175' crosscut on C-D zone, bulk sampling and testing in pilot mill. 1970: dd. 1972-73: decline driven 1,000' in C-D zone, dd, bulk sampling and mill tests. 1976-77: dd.	(i) C-D zone: 90,000,000 at 3.87% Asb 1968 (ii) A, B, East D zones: 86,371,000 at 3.55% Asb 1965 (CMH 1979-80, p 175)	The fibres are 4T, 5R, 6D and 7D groups and suitable for making asbestos cement, asbestos paper, friction materials and sheet packing. Property was under option by Riocanex in 1970-78, but after extensive expln, tests and feasibility studies the option was dropped.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-339	PERCH RIVER Perch River ML 32 I/5 50°20.5' 73°42.5'	Disseminated cp in qtz-carb veins in a graphitic horizon, a concordant fault plane within dolomites of the Mistassini Group.	1967-71: EM and soil geochem surveys, dd. 1972: inclined adit. 1973: bulk sample tested at the Merrill mill.	566' x 7-8' at 1.95% Cu 1973 (NM 27/06/74)	Dimensions and grade represent aggregate of vein sampled in adit. While 1973 concentration tests were satisfactory, the deposit itself was found to be too small.
QUE-340	ODON LAKE Redstone Res Inc (in 1972) 32 J/9 50°41.1' 74°21.8'	Disseminated cp and mo in a 25° NW-dipping shear-breccia zone in gabbro.	1971: discovery; mag, EM, IP surveys, dd. 1972: dd.	(i) NE pod: 5,000 at 3.34% Cu, minor Mo, across 4.8'. (ii) SW pod: 4,000 at 2.60% Cu, 0.20% Mo, across 2.5'. 1972 (Que GM-28490, 1972)	Drilling has delimited the two pods laterally and in depth.
QUE-341	DOMERGUE LAKE (LESSARD) Selco Inc 57.3% Muscocho Explo L 20.0% Conwest Expl CL 22.7% 32 J/10 50°38.5' 74°38.5'	Volcano-exhalative sulphide (sph, py, po, cp, gal) deposit in two lenses in rhyolitic tuff.	1970-71: mag-EM surveys. 1971-74: dd. 1979: dd. 1981: EM survey.	dd-ind: 1,050,000 at 3.30% Zn, 1.82% Cu, 1.12 oz/t Ag, 0.02 oz/t Au 1979 (Conwest Expln CL, 1979 AR)	
QUE-342	MOLEON LAKE Selco Inc 32 J/10 50°42.5' 74°47.5'	Massive and disseminated sulphides (po, sph, cp, gal) in a silicic tuff within a contact metamorphic zone of a gabbroic intrusive.	1961: discovery. 1962: mag and EM surveys. 1962, 65, 72-74: dd.	200,000 at 4.25% Zn, 2% Cu, 1.5 oz/t Ag, 0.029 oz/t Au 1974 (Que, oral commun 1981) or 181,400 at 1.56% Cu, 3.40% Zn 1974 (Que DPV-756, p 14, 1980)	
QUE-343	TROILUS Muscocho Explo L 32 J/15 50°51.0' 74°34.2'	Au in qtz veins and stringers within a 6-8' wide shear zone in volcanics.	1959: discovery. 1967: dd - 17 holes. 1980-81: 46 ddh.	17,500 at 0.48 oz/t Au 1981 (NM 9/07/81)	In a block of 110 m x 1.2 m x 45 m (deep).
QUE-344	CHABOULLIE (HORDEN) LAKE Nemiscau ML 32 K/13 50°56.2' 77°48.1'	Cp, pn, po, py, as magmatic segregations in gabbro.	1957: airborne mag and EM. c 1962: discovery. 1963-69: 70,000' dd.	1,929,250 at 2.31% Cu, 0.49% Ni, 0.96 oz/t Ag plus 1,050,750 at 1.20% Cu, 0.39% Ni, 0.51 oz/t Ag, undiluted 1969 (Que 23/08/77, written commun)	Renewal of Mining Lease applied for in 1978. Deposit is 7 mi west of LG-2 road, and 80 air mi N of Matagami.

QUE-345	EASTMAIN Placer Dev L 33 A/8 52°18.0' 72°05.5'	Siliceous zone in volcs carrying po, py, minor cp. Details N/A.	1970: aerial and ground geoph surveys, 2 ddh - both cut good Au values. 1973-75: minor surf work and poss dd. 1982: 34 ddh of which 14 outlined deposit.	ind-inf: 700,000 mt at 14 g/t Au, 16 g/t Ag, 0.26% Cu (undiluted) 1982 (Placer Dev L, 1982 AR)	Work continuing in 1983 in a joint venture with a Crown corporation.
QUE-346	CYR LITHIUM James Bay Dev Corp 33 C/3 52°14.1' 77°03.6'	Spodumene in numerous irregular bodies of pegmatite occurring in a belt of 4 km x 300 m.	1973-74: surface sampling, concentration tests. 1977: 3 ddh.	40,000 T/VF at 1.7% Li_2O 1974 (Que MIQ 1975, p 87)	Based on surface sampling; later dd showed the values to diminish with depth. Conc. tests showed excessive Fe content for use in ceramics.
QUE-347	SAKAMI LAKE Cdn Nickel CL (67%) and James Bay Dev Corp (33%) 33 F/2 53°10.9' 76°54.8'	Host rock is a deformed chert-pebble conglomerate, part of a Proterozoic outlier resting on Archean basement.	1972-75: airborne and ground rad surveys, dd.	approx. 10,000,000 at 1 lb/t U_3O_8 in a zone 1 km long c 1975 (GEOS, p 7, Winter 1978)	
QUE-348	GANIQ James Bay Dev Corp 33 G/13 53°46' 75°40'	N/A	N/A	(i) North Zone: 150,000 mt poss at 0.050% U_3O_8 (ii) South Zone: 115,000 mt poss at 0.035% U_3O_8 (Que GM-37017)	Located in township 3321 near La Grande R.
QUE-349	RICHMOND GULF - LITTLE WHALE RIVER Penarroya Can L (option in 1969) 33 N/15, 34 C/2 55°56.7' 76°44.0' (Ruby Lake)	Py, sph, gal at the bottom of gently dipping limestone unit of the Aphebian Manitounuk Group. Sulphides with qtz-carb occur as veins - sulphides disseminated and occasionally in massive lenses, and as partial replacements of algal structures.	1947: rock trenching, bulk sampling. 1948-49: dd.	a) Nancy Island: 294,463 at 2.15% Zn, 0.72% Pb across 11.2' in 3 lenses b) Ruby Lake: 578,690 at 1.26% Zn, 1.02% Pb across 16.4' c) Lake Monté: 132,560 at 1.75% Pb 1948 (NM 30/12/48)	
QUE-350	RAGLAN NICKEL New Que Raglan ML	Po, pn, cp are generally localized at or near the base of ultrabasic sills intruding Aphebian lavas and sediments of the Cape Smith - Wakeham belt. The deposits occur at irregular intervals within this belt over a distance of 35 mi.	1931-32: first discoveries. 1954: staking, surface work. 1957-58: airborne and ground mag-EM surveys, dd. 1961-70: geoph surveys, dd, bulk sampling, metallurgical tests. 1965: Falconbridge Nickel ML assumes control of Raglan Nickel ML. 1969-70: shaft sunk 924' on Donaldson deposit with 4,393' lateral advance on 700' level, u/g dd.		Falconbridge L owns 68.6% of New Que Raglan ML. No work was done on Cross Lake, C-1 and C-2 since 1964. The other 4 deposits are higher grade and likely to be mined first. High costs of diesel power generation, labour, material and transportation deter production decision.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-350	RAGLAN NICKEL (cont'd)		1971: 38 mi road constructed from Douglas Harbour to Donaldson and Katiniq deposits; engineering and feasibility studies. 1980: aeromag survey. 1981: 46,000' dd in Donaldson area; feasibility studies. 1982: dd.		Start-up costs would be in the range of $150-160 million.
	Cross Lake 35 G/9 61°35.6' 74°17.5'			dd-ind: 5,882,400 at 1.44% Ni; 0.65% Cu 1964	
	C-1 35 G/9 61°35.7' 74°14.5'			dd-ind: 1,301,900 at 1.71% Ni, 0.96% Cu 1964	
	C-2 35 G/9 61°35.8' 74°13.1'			dd-ind: 2,717,900 at 1.65% Ni, 0.99% Cu 1964	
	Donaldson 35 H/11 61°40.5' 73°17.5'			prov & prob: 4,227,500 at 3.44% Ni, 0.80% Cu 1981	
	Katiniq 35 H/12 61°41' 73°40'			prov & prob: 5,431,400 at 2.92% Ni, 0.81% Cu 1981	
	2-Area 35 H/12 61°40.0' 73°44.7'			prov & prob: 939,500 at 2.69% Ni, 0.76% Cu 1981	
	3-Area 35 H/12 61°39.8' 73°46.2'			prov & prob: 1,438,200 at 3.19% Ni, 0.76% Cu 1981	
				(Que ES-9, pp 8-9, 1971; New Que Raglan ML, 1981 AR)	
QUE-351	EXPO UNGAVA Exroy Res L 35 H/11 61°33.3' 73°26.7'	Disseminated to massive po, pn, cp in an ultrabasic rock.	1957: discovery. 1967-69: mag survey, dd. 1970-71: dd.	ind: 4,065,895 at 0.96% Ni, 1.04% Cu, mineable by o/p 1969 (CMH 1978-79, p 11) or 18,738,000 at 0.47% Ni, 0.52% Cu (Que ES-9, p 12, 1971)	The larger tonnage figure results from computerized statistical analysis of drill core intersections, with error probability of ±15%.
	ONTARIO				
ONT-1	FRONTENAC LEAD MINE (FORBES GALENA MINE) Lake Kingston ML (in 1957) 31 C/7 44°28'29" 76°51'17"	Calcite-galena vein up to 44' wide, averaging 10'-12' in Precambrian marble. Vein in 2 segments 1,500' and 1,000'.	1866-70: No 1 shaft 80', about 2,000 tons ore mined. 1875-80: No 1 shaft to 267', drifting on 5 levels. 1903-05: No 2 shaft to 80', 500 tons ore mined.	poss: 250,000 Pb, grade unstated 1952 (Ont SMDR 000940, 1974)	Bulk sampling on surface over a length of 400' and an average width of 12' gave 4.20% Pb, 0.30% Zn, 0.22 oz/t Ag.

			1911-12: No 3 shaft to 150', 500' drifting. 1916-17: prod. 1926-27: No 1 shaft to 313', drifting on 300' level. 1947-48: 3,108' dd. 1951-52: 11 ddh. 1958: 2,046' dd.		
ONT-2	JOYCEVILLE Canada Dept of Justice 31 C/8 44°21'11" 76°21'45"	Ordovician or Cambrian Potsdam Fm sandstone exposed in a 50' cliff over 6,400' length and a width 200' to 900'. Sections are limonitic or carbonaceous.	1943-46: quarry operations, dd, mill constructed.	10,000,000 tons sandstone at between 96.03% and 99.12% SiO_2 c 1945 (Ont AR 1945, pt 5, p 16-18)	Plant closed in 1953 and expropriated by Dept of Justice.
ONT-3	PADDLE St Lawrence Industrial Silica L (in 1962) 31 C/8 44°18'16" 76°16'44"	Grey Ordovician or Cambrian Potsdam Fm sandstone in a 10'-12' section. Grain size -20 to plus -200 mesh range with limonite and carbonaceous material.	1950: quarry operations. 1956: dd.	1,714,600 at 96.0% SiO_2 plus 7,855,300 at 92.6% SiO_2 plus 4,585,600 at 83.0% SiO_2 c 1956 (Ont IMR 9, p 18, 1963)	
ONT-4	HUDSON BAY Rio Tinto Cdn Expl L (in 1962) 31 C/9 44°40'39" 76°16'17"	Cambrian or Ordovician Potsdam sandstone or qtzitic sandstone 10'-20' thick.	1960-61: dd, milling tests.	5,000,000 SiO_2, grade unstated (13.5' thick) plus 2,100,000 SiO_2, grade unstated (17.7' thick) c 196 (Ont IMR 9, p 21-23, 1963)	
ONT-5	MATTHEWS MINE Dynamar Energy L 31 C/9 44°38'18" 76°20'24"	Mag with some ilmenite, hematite and py as disseminations, layers and veins in Proterozoic gabbroic anorthosite.	1860-74: mng from o/p. 1957-60: mag, dd, concentrating tests.	ind: 38,000,000 at 25.1% Fe, 6.60% TiO_2 1960 (Mymar Mng & Reduction L, 1970 AR)	Deposit 1,900' long, 500' wide, 400' deep.
ONT-6	TIMMINS MINE Orrwell Energy Corp L 31 C/9 44°44'23" 76°18'40"	Graphite as disseminations in white silicated marble with richer concentrations in shear zones. The zone is about .75 mi long. One section has length 450', width 12.7' and a grade of 8.4% C.	1918: mng and dev, dd. 1951: dd, mill test on 150 tons.	ind & prob: 956,749 at 7%-9% Grp plus 11,000 Grp in the dump 1919 (MPS RF 167-G2-2-21) or dd-ind: 226,750 at 8% grp plus prob: 739,993 tons grade unstated (NM 10/12/81)	
ONT-7	KIRKHAM GRAPHITE Frobisher L (1952) 31 C/10 44°33'35" 76°34'28"	Graphite in Precambrian silicated marble in a syncline. Upper zone is about 300' long and 22' wide, the Lower is about 250' long.	1952: dd, 300 ton bulk sample taken. 1953: EM survey, dd.	proven: 86,000 at 10% C in Upper Zone plus 120,000 at 12% C in Lower Zone 1953 (Ont IMR 20, p 13, 1965)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-8	ADDINGTON MINE (GOLDEN FLEECE) Addington ML (1969) 31 C/11 44°42'15" 77°11'27"	Gold bearing zone consisting of qtz stringers and veins along the contact between Precambrian metavolcanics and metasediments. The zone is about 3,000' long and 15' wide and contains ankerite, calcite, tourmaline, py, cp, po, asp and scheelite.	1881: discovery. 1887: shallow shafts, 10 ton stamp mill. 1907-21: mng, shaft deepening. 1922: cyanide plant added. 1932: mine dewatered, small amount of gold produced. 1936-39: u/g dev; surface and u/g dd. 1981: 3,000 m dd by E&B Expls L.	proven: 215,000 at 0.16 oz/t Au 1938 (Cominco L, 1938 AR) or proven & prob: 359,000 Au, grade unstated. (NM 20/04/39)	In 1939 all work was suspended and the mine flooded. No reason was given for shutdown. Currently re-evaluated by E&B Expls L.
ONT-9	CORDOVA (BELMONT) MINE Laisir Gold Inc 31 C/12 44°32'10" 77°47'15"	Gold in qtz lenses and stringers, with py and minor po. Zones in shear zones cutting Precambrian mafic intrusion.	1890: discovery. 1891: shaft sinking. 1892-1917: intermittent prod, 22,774 oz. 1933: u/g sampling by Cominco Ltd. 1935-39: No. 35 shaft to 1,050' on incline, 152' inclined winze. 1939-40: small prod, 125 tpd mill. 1965: dd, sampling of tailings and in situ Au material. 1979: cyanide heap-leaching of tailings.	200,000 at 0.12-0.25 oz/t Au plus 25,000 broken ore c 1940 ? (Ont MP 91, p 130, 1980) plus 200,000 at 0.06 oz/t Au (in tailings) 1980 (Ont, MP 95, p 151, 1981)	Mill to be constructed in 1981. Tailings could be treated while u/g work is in progress. Aug 81 received $16,119 for gold extracted from 682 lbs of Au-bearing charcoal from tailings. (GCNL 08/01/82)
ONT-10	GILMOUR MINE Gilmour G Expls L 31 C/13 44°50'30" 77°32'18"	Gold in qtz veins cutting mafic metavolcanics.	c 1902: discovery. 1910: shaft, u/g work, 5 stamp mill. 1911: shaft sinking. 1935: 100 tpd mill. 1940: u/g workings dewatered, dd. 1980: sampling. 1981: dump and tailings examined.	15,000 at 0.2 oz/t Au (in dump) 1981 (CMJ 8/81 p 10)	
ONT-11	MACASSA (LIMERICK) Willroy ML 31 C/13 44°52'15" 77°43'15"	Disseminated and semi-massive sulphides (10%-70%) in Precambrian metapyroxenite in a portion of ultramafic complex. The deposit is about 800' long; 50' wide and extends more than 1,000' in depth. The zone pinches and swells and includes po, pn, py, cp, traces of cubanite and sph.	1961: discovery after EM survey of an aeromag high. 1962-63: dd. 1969-71: dd, metallurgical testing, SP, bore hole geoph.	ind: 1,800,000 at 0.91% Ni, 0.26% Cu, 0.06% Co to a depth of 1,200' 1970 (NM 14/10/71) or 3,894,000 at 0.825% Ni; 0.054 oz/t Co; 0.253% Cu to 1,100' c 1970 (FP Corp Serv, Willroy ML, June 1979)	Metallurgical problems. High cost of treatment has hindered development.

ONT-12	ORE CHIMNEY Cavalier Mng Corp L (in 1961) 31 C/14 44°46'38" 77°09'06"	Gold and silver in a qtz vein in a shear zone in Precambrian mafic metavolcanics. Vein up to 4' wide and contains gal, sph, cp and py. Length of vein 50'-100' in u/g workings.	pre-1909: discovery. 1911-16: shaft to 405', 5 levels, 20-stamp mill, little ore treated. 1923-24: some u/g work. 1925-26: 125' winze, new level. 1929-30: radiore survey, dd. 1932: mine dewatered, u/g sampling, u/g dev and dd. 1956, 1963: dd.	prob: 11,000 at 0.20 oz/t Au, 5.64 oz/t Ag between 100' and 500' 1957 (Cavalier Mng CL 1957 prospectus)	1980: shaft rehabilitation and dewatering, dump sampling, by Cox Mng L.
ONT-13	GLOBE GRAPHITE MINE Graphite Refining CL (in 1960) 31 C/16 44°51'32" 76°09'40"	Graphite in Precambrian marble on a limb of an anticline. Maximum width is 40', length is 400', grade about 15% to 25% C. Diopside, feldspar, calcite, pyrite and titanite main gangue minerals.	1870-75: mng operations. 1893: expl. 1902-03: mng operations. 1908-11: mng operations. 1915-19: mng operations, o/p 400' long, 10'-30' wide, shaft 250', 4 levels, u/g work.	poss: 100,000 Grp, grade unstated c 1942 (MPS RF 167-G2-2-5, 1942)	
ONT-14	OLYMPUS (STANLEYVILLE) Canalex Res L (in 1979) 31 C/16 44°48'00" 76°19'28"	Vermiculite, talc, calcite, diopside, phlogopite in serpentinized metamorphic pyroxenite. The band has apparent width of 200', length more than 1,000', depth of 300'. Joints and fractures filled by massive talc.	1950: discovery. 1951: test pitting, trenching, dd. 1960: o/p started over an area of about 275' x 900' to a depth of 16', auger drilling, dd, 165,000 tons stockpiled. 1965: pilot mill.	13,500 T/VF Ver material (NM 26/11/64) or 4,000,000 Ver, grade unstated to a depth of about 300' 1979 (Olympus ML, Oct 1979, personal commun)	
ONT-15	CAVENDISH MINE Rare Earth Res L 31 D/9, 16 44°45'00" 78°21'20"	Uranothorite, uraninite and allanite in flat lying Precambrian pegmatite dykes. Secondary uranium minerals incl uranophane and kasolite. Accessory minerals incl magnetite, zircon, titanite and fergusonite.	1954: discovery. 1955: shaft to 88', lateral work and raising, dd. 1967: dd. 1973: geol mapping, dd. 1973-78: economic viability study.	ind: 435,624 at 0.096% U_3O_8 1955 (NM 23/05/68)	Tonnage is found in two zones. The company reorganized in 1979 for the purpose of developing its Bancroft area properties.
ONT-16	ZENMAC (LOON CALL), (NEWKIRK B GROUP) Camindex ML 31 D/9 44°44'14" 78°10'10"	Four uranium-bearing lenses in granite pegmatite. Uranothorite is the U-bearing mineral and accessories incl zircon, molybdenite and cp.	1953: airborne scint survey. 1954-55: ground scint surveys, geol, dd. 1967-69: dd. 1974: mag and EM surveys.	ind & inf: 406,000 at 1.77 lbs/t U_3O_8 to a depth of 500' and over a true width of 7.5' c 1968 (NM 25/01/68)	Camindex was granted a 21 yr lease on the property in 1978.
ONT-17	BICROFT 1 (CENTRE LAKE) Willroy ML 31 D/16 44°59'35" 78°02'05"	Ore shoots in Precambrian syenite and granite pegmatite. Ore minerals uraninite, uranothorite, thorite, pyrochlore and betafite. Accessories are allanite, zircon, titanite, fluorite, py, po and mo. Pegmatite bodies range from a few feet to 80' in width and up to 400' in length.	1952: discovery. 1953-54: trenching, dd, airborne rad, 975' adit, shaft to 234', 1 level. 1955-56: No 2 shaft, 500 tpd mill, dd. 1956-63: prod, No 2 shaft to 1,843', 12 levels.	N/A U	Operations ceased in 1963 on completion of contract obligation. Contract was not renewed.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-18	BLUE ROCK OCCURRENCE (RARE EARTH NO 2) Rare Earth Res L 31 D/16 44°56'00" 78°14'36"	Zone C or Main Zone, consists of radioactive granite-granite-pegmatite that intrudes or replaces Precambrian metagabbro. Ore shoots are from a few feet to 20' wide and 10'-200' long, in a zone 1,000' long. Accessory mnrls are zircon, allanite, titanite, uranothorite, fergusonite, uraninite and uranophane.	1952: "A" zone discovery, trenched, dd. 1954-56: "C" zone discovery, scint survey, dd, shaft to 440' (3 levels), u/g dd, adit. 1969: scint survey. 1974-75: dd. 1973-78: economic viability study.	86,597 at 0.095% U_3O_8 to a depth of 400' or ind: 205,847 at 0.095% U_3O_8 to a depth of 600' and within 500' of workings. 1957 (Ont SMDR 000224, 1977)	
ONT-19	CANADIAN DYNO Conwest Expl CL 31 D/16 44°57'03" 78°05'54"	Uranothorite, uraninite, uranophane in Precambrian leucogranite and pegmatitic leucogranite dykes. Accessories incl mag, pyroxene, titanite, zircon, allanite, hematite, and apatite. Some pyrochlore is also present.	1953: discovery, dd, geol, rad survey. 1954-56: dd, stripping, trenching, shaft to 1,719'; 8 levels, 1,100 tpd mill. 1957-60: prod.	poss: 500,000 at 0.065% U_3O_8 1960 (MPS MR 12, p 220, 1967)	Dykes 5' to 50' wide and more than 100' long. Five zones in a strike distance of 6,500'. "B" most important 1,200' long, 75' wide and 1,000' deep.
ONT-20	EMPIRE-B ZONE Uranex Res L 31 D/16 44°59'40" 78°11'32"	Uraniferous Precambrian leucogranite or granite pegmatite lenticular discontinuous dykes or bodies. U-bearing minerals incl uranothorite and uraninite, accessories incl zircon, titanite, allanite, pyrite, and magnetite.	1954: scint and geol surveys, dd. 1967: airborne mag, EM, scint, dd. 1971: geochem, dd. 1976: dd.	ind: 2,600,000 at 0.71 lbs/t U_3O_8 to a depth of 400' 1976 (NM 22/09/77)	U concentrated in lenses over widths of 2.1' to 9.3' and lengths of 25' to 600'.
ONT-21	FARCROFT Camindex ML 31 D/16 44°45'45" 78°08'26"	Uranium-bearing sections in pegmatite massed 40'-50' wide. Radioactive mnrls incl uranothorite, uraninite, allanite in 4 lenses 150' to 1,180' long, 4.0' to 10.4' wide. Mo and zircon are also present.	1953: airborne scint survey. 1954-55: ground scint survey, dd. 1967-69: dd. 1974: mag and EM.	1,200 T/VF at 0.077% U_3O_8 c 1967 (NM 03/08/67)	
ONT-22	KENMAC CHIBOUGAMAU Kenmac Chibougamau ML (in 1974) 31 D/16 44°59'52" 78°09'10"	Precambrian leucogranite contains patches rich in mag with rare accessory allanite and uranothorite.	pre-1954: discovery. 1954-55: stripping, trenching, dd, scint survey; adit and lateral work, bulk sampling.	ind: 200,000 at 0.20% U_3O_8 1955 (ODM SMDR 000179, 1976)	Tonnage and grade estimates are preliminary.
ONT-23	NORTHERN NUCLEAR (WADASA) Tom Gledhill (in 1977) 31 D/16 44°55'24" 78°19'05"	Uraninite in Precambrian silicated marble close to contact with radioactive pegmatite. Zone is 1,600' long, 500' wide (down dip), 25' thick. Associated mnrls incl apatite, py, zircon, epidote, sericite, phlogopite, biotite, po, cp, actinolite-tremolite, and mo.	pre-1954: discovery. 1954: dd, trenching, bulk sampling.	2,000,000 at 0.045% U_3O_8 c 1968 (Northern Nuclear ML 1969 prospectus)	

ONT-24	RARE EARTH MINE (RARE EARTH NO. 1) Rare Earth Res L 31 D/16 44°57'05" 78°15'04"	U-bearing ore shoots in granite or granite pegmatite bodies intruding Precambrian diopside qtzite. Accessories incl allanite, uranothorite, zircon, py, mo, po. The granite or granite pegmatite bodies are lens shaped or narrow dykes 2'-200' long.	c 1948: discovery. 1951: dd, adit, shaft to 657', 5 levels, some u/g dev. 1956: u/g dd. 1958: metallurgical testing. 1968: scint survey. 1973-78: economic viability study.	52,760 at 0.110% U_3O_8 1957 (Ont SMDR 000219, 1977)	No 1 shaft area to a depth of 600' incls 10-15% dilution. The company reorganized in 1979 for the purpose of developing its Bancroft area properties.
ONT-25	ATLIN-RUFFNER Uranex Res L 31 E/1 45°00'42" 78°10'56"	Allanite bearing pegmatite zone 200' long by 6' wide to 160' depth. Crystals of allanite up to 6".	1953-55: scint and mag surveys, trenches, dd, bulk sample, geol survey. 1967: airborne EM and mag surveys.	prob: 36,600 at c 2.29% CeO_2 1955 (Ont SMDR 000151, 1975)	Fluorite potential in the area west of the cerium showing was being evaluated in 1971.
ONT-26	BICROFT (CROFT) Energy & Res (Can) L 31 E/1 45°02'00" 78°01'48"	Uranium mnrls in Precambrian pegmatite dykes which are irregular pod shaped, branching, cutting and replacing country rocks. There are several radioactive showings along an 8,500' length. Most important is "J" Zone, where 4 lenticular bodies of pegmatite occur along a strike length of 1,500', to a depth of 700' and widths of about 10'. On surface are yellow secondary U minerals and u/g are uranothorite, accessory zircon, py, mo.	1952: discovery. 1953-54: airborne scint, trenching, 360' adit. 1975: radon gas survey, dd, metallurgical testing. 1977: dd. 1979: dd.	ind: 979,810 at 1.20 lbs/t U_3O_8 (.5 lb/t U_3O_8 cut-off over minimum width of 10') in Adit, Middle and Fourth zones to 500' depth 1976 (Energy & Res (Can) L in TSE Fil Stat 2071, 16/01/80)	Interest in the property as of January 1980 is held by Can 50%, Dolores Bench Res L 25% and Kerr Addison ML 25%. Discussions concerning shared milling facilities are underway.
ONT-27	FISSION (RICHARDSON) (BAYCROFT) Fission ML (in 1955) 31 E/1 45°03'20" 78°11'35"	Uraninite and uranothorite in pyroxene-fluorite syenite pegmatite dykes exposed for 2,200'; thickness from 7' to 30'. Uraninite also in calcite-fluorite-apatite veins, 3' to 5' wide and avg 25% fluorite.	1922: diacovery. 1929-31: pitting, trenching, 470' adit, 50' shaft, 875' lateral work. Open cut 380' x 20' x 20'. 1931-33: tests in a 50 tpd mill. 1946-48: 12,000' dd, small amount u/g exploration. 1955: 10 ddh totalling 2,545'.	80,000 fluorite in No. 1 and No. 2 zones c.1952 (GSC EG 16, p 209, 1962)	Recoverable from 300,000 tons fluorite bearing material within a width of 450'. One of the first Canadian deposits explored for radioactive minerals.
ONT-28	HALO (HALL LAKE ZONE) Rare Earth Res L 31 E/1 45°01'42" 78°10'50"	Uranothorite, uraninite, thorite in Precambrian pegmatite masses that may be pyroxene rich. Accessory mnrls include mo, py, po, zircon. There are two occurrences about 1,000' apart: Lake and Northwest.	1953: discovery, rad surveys, stripping, dd. 1955: trenching, dd, Nos. 1 and 2 adits. 1956: raise to surface from No. 1 adit, lateral work, dd. 1968: rad surveys, tr, dd, EM. 1980: access road rebuilt, u/g bulk sampling.	(i) No. 1 adit (Northwest showing): 48,000 at 0.109% U_3O_8 above adit level plus 240,000 ind at 0.115% U_3O_8 below adit to 315' plus 110,000 poss at 0.118% U_3O_8, 315' to 515' c.1957 (ii) No. 2 adit (Lake showing): 6,000 at 0.098% U_3O_8 above adit level	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-28 (cont'd)				plus 23,000 ind at 0.098% U_3O_8 below adit to 105' plus 45,000 poss at 0.098% U_3O_8 105' to 305' includes 10% dil. c.1957 (Ont Resident Geologist, Southern Ontario, File Cardill 39; Ont SMDR 175 and 176, 1976)	
ONT-29	HARCOURT (MUMFORD) Frobisher L (in 1951) 31 E/1 45°04'10" 78°10'04"	Flake graphite, up to 1/8" in Precambrian limy paragneiss. Zone 1,200' long, 60' thick contains some py.	pre-1912: discovery. 1912-15: mill, small u/g operation, small amount mined. 1951: dd.	ind: 1,440,000 at 4.1% C 1951 (Ont IMR 20, p 20, 1965)	Includes 800,000 tons at 5% C.
ONT-30	JOINER Carbrew Expls L (in 1977) 31 E/1 45°02'43" 78°11'50"	Molybdenite as disseminations or in poorly developed fractures in Precambrian intercalated paragneiss and limestone. Area could be about 1,600' x 800'.	1917: expl. c 1920's: trenching. 1935: trenching. 1952-57: trenching, dd. 1965-66: geol mapping, sampling, dd.	500' x 8.5' at 0.22% MoS_2 1966 (Ont MRC 7, p 27, 1968)	
ONT-31	WILBERMERE LAKE Uranex Res L (in 1978) 31 E/1 45°00'15" 78°12'06"	Fluorite in a granite pegmatite dyke and in calcite-fluorite vein dykes over a stratigraphic thickness of 15'-30'.	1953-55: explored for uranium, scint survey, dd. 1967: airborne mag, EM, scint survey, dd. 1971: geochem. 1972-73: dd.	2,000,000 of low grade Fsp with some U, Th, c 1975 (Ont SMDR 1143, 1978)	Individual dykes less than 3' wide and in a horizon of 2,200' strike length, slope length of 950' and an assumed average width of 12'.
ONT-32	BEAVER CALCIUM Burcal Industrial Mnrls L 31 E/13 45°45'15" 79°39'	Up to half a mile wide band of Precambrian crystalline limestone breccia.	1967: discovery, dd, pits, material testing. 1971-72: pilot plant, 3.5 tph capacity. 1975: prod of about 10,000 tons low quality calcite.	1,000,000-6,000,000 calcite material c 1974 (NM 11/07/74; J E Jerome 19/09/73 for Beaver Mng Corp in MSE Fil Stat 28-74, 01/05/74)	The company has experienced financial difficulties and the property has been idle since 1975.
ONT-33	CLYDE FORKS Carndesson ML (in 1975) 31 F/2 45°07'40" 76°43'40"	Five foot barite vein traced for 400' in crystalline limestone. Nearby an Hg-Sb-Cu deposit 5' thick, 300' long, extends 500' down dip. Mnrls incl mercurian, tetrahedrite, stibnite, cp, asp, getchellite, cinnabar, barite, malachite, azurite, calcite and qtz.	1918-19: first investigated for barite, stripping, pits. c 1950's: dd. 1964-67: dd, 98' adit into base metal deposit. 1968-70: geochem, dd.	60,000 Cu-Sb-Hg-Ag, grade unstated c 1969. (DW Sullivan 22/09/69 for Carndesson ML)	Assays up to 13.7% Cu, 2.8% Sb, 0.30 lbs/t Hg, 0.40 oz/t Ag. Some barite.

ONT-34	BEIDELMAN Federal Zinc & Lead CL (in 1948) 31 F/3 45°15'00" 77°13'30"	Graphite as disseminated flakes in narrow bands in white Precambrian crystalline limestone. Phlogopite also present.	c 1880: discovery. 1917: dev work, o/p, trenches, pits.	Possible considerable tonnages of disseminated flake graphite. (MPS MR 167-G2-2-18, 1942)	Zone is about 250' wide and center bands of 1.5' to 2' contain over 50% flake graphite.
ONT-35	SIMON PROSPECT Young-Davidson ML (in 1974) 31 F/3 45°12'40" 77°18'50"	Main occurrence consists of cp, po, a little sph in Precambrian amphibolite paragneiss. Zone is 2' to 30' thick.	1961: EM survey, geol mapping, dd, trenching. 1965: dd.	ind & inf: 253,000 at 1.09% Cu to a vertical depth of 350' 1965 (NM 26/05/66)	
ONT-36	FARADAY Madawaska ML 31 F/4 45°01'14" 77°55'30"	Uranium and thorium mnrls in Precambrian pegmatite. Ore shoots range from 60'-350' in length, 6'-100' in width.	1949-52: discovery, str, tr. 1952-54: sampling, tr, dd, geol mapping, ground and airborne geoph, u/g expl. 1956-64: shaft sinking, prod. 1968-69: u/g expl. 1976-82: prod, shaft to 1,550', mill capacity at 1,500 tpd.	N/A	Production ceased due to termination of sales contract with AGIP Nuclear International, an agency of the Italian government.
ONT-37	GREYHAWK Madawaska ML 31 F/4 45°01'54" 77°53'40"	Uraninite and uranothorite in Precambrian granitic pegmatite dykes. Other radioactive mnrls allanite, pyrochlore, and cryolite and accessory py, mag, titanite, apatite, zircon, epidote. Radioactive zone 2,000' long, vertical depth 450', dykes vary in width 1' to 60', ore shoots were 100' long, and averaged 6' wide. High grade areas accompanied by hematization.	1955: discovered during rad surveys; dd. 1956: shaft to 372', 3 levels, u/g work. 1957-59: u/g prod at 100-200 tpd.	200,000 at 0.065% U_3O_8 1959 (MPS MR 12, p 240, 1967)	Resources remaining in mine workings.
ONT-38	MELL-QUIRK Forefront Cons Expls L 31 F/4 45°08'03" 77°43'43"	Radioactive mnrls are found in coarse grained pegmatite dykes which cut a NE trending metasedimentary band.	1956-57: discovery, trenching, dd. 1969: dd. 1975-76: trenching and dd.	dd-ind: 340' x 13' at 0.5 lbs/t U_3O_8 in North zone 1976 (NM 16/09/76)	
ONT-39	CRAIGMONT CORUNDUM MINE Cor-o-Tex Industrial Mnrls L (in 1965) 31 F/5 45°18'20" 77°37'	Corundum in Precambrian syenite. Erratic and patchy outcropping over a length of more than 1 mi.	c 1899: discovery. 1900-08; 1909-13; 1920-21; 1944-46: 220' adit, numerous quarries, pits and cuts; total prod about 321,000 tons.	275,000 at 5% corundum c 1917 or 125,000 at 2.96% corundum 1942 (Ont AR 1942, pt 3, p 22)	Both resource estimates refer to the tailings dump.
ONT-40	SPAIN MINE Chesapeake L (in 1968) 31 F/6 45°17' 77°04'15"	Mo in pyroxenite as well as in seams and joints in pegmatite. Py and po are present. Mo zone 200' x 55' x 5'.	1912: operation. 1915-19: operations, pits, shafts, mill. 1939-40: stripping, trenching, dd. 1965-66: sampling, dd.	proven: 25,000 at 1.67% MoS_2 c 1966 (Chesapeake L, rept Nov 1966)	More than 4 tons of molybdenum were recovered from 104 tons mined to 1919.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-41	BUCKHORN Buckhorn ML (in 1943) 31 F/7 45°23'50" 76°41'45"	Mo as sparse flakes in bands of pyroxenite in biotite hornblende granite gneiss and crystalline limestone. Py also present with py-mo stringers up to 16" wide.	1939-42: pits, trenching. 1943: dd.	ind: 1,500 at 1% MoS_2 c 1943 (GSC P 51-27, p 57, 1951)	
ONT-42	HUNT (BELGIAN) MINE Chesapeake L (in 1968) 31 F/7 45°18'10" 76°54'20"	Mo with py and po in pyroxene or pyroxene and scapolite rocks. Zone traced for 400' and is about 6' wide.	pre-1912: discovery. 1912: dd, dev work. 1915-18: mng operations, 25 tpd mill, 1,800'-2,000' lateral work on 4 levels to a depth of 150'. 1965: SP, u/g sampling.	(i) Block A: 8,850 proven at 0.52% Mo plus 70,000 inf Mo, grade unstated. (ii) Block B: 32,000 proven at 0.67% Mo. 1966 (Chesapeake L repts, c 1966)	About 20,000 tons of Mo ore was mined between 1915 and 1918.
ONT-43	O'BRIEN MINE Major Molybdenite ML (in 1942) 31 F/7 45°17'20" 76°56'40"	A little mo, py with qtz in veinlets paralleling foliation of hybrid gneiss. Zone 200' long, 75' wide.	1908: discovery. 1916: 300 ton bulk sample. 1942: surface work and shipped 20 tons. 1943: dd.	poss: 2,000 at 1% MoS_2. (Ont AR 1944, pt 3, p 81)	Main workings consist of 3 pits and 4 shafts. Deepest shaft 50'.
ONT-44	RENFREW ZINC PROSPECT Cadieux ML (in 1977) 31 F/7 45°24'57" 76°42'30"	Sph and minor gal disseminated in Precambrian crystalline limestone, in bands and lenses 4" to 4' wide. Zone traced 3,300' to 1 mi over a width of 400'. Largest lens 120' x 100' x 15' with gangue consisting of calcite, tremolite, diopside.	1922: discovery. 1925: stripping, trenching, dd. 1926: dd. 1947: dd. 1950: dd, mill construction, mng operations.	16,000 at 10.5% Zn in largest lens c 1926 (Ont AR 1944, pt 3, p 116)	In 1951, 60 tons at 44% Zn were produced from 1,500 tons of ore.
ONT-45	MATTAWA VANADIUM-IRON Questmont ML (in 1975) 31 L/2 46°13'40" 78°42'00"	Numerous conformable vanadium bearing titaniferous mag lenses occur within a differentiated gabbro-anorthosite pluton.	1942: surface examination. 1950: mag survey, res est.	pot: 950,000 at c 0.75% V_2O_5, 7% TiO_2, 35% Fe above 100' in 6 bodies 1950 (N B Keevil 07/06/50 in Prospectus, Femco ML 20/12/50)	In 1975, a firm contract of sale was sought. CMH 1974-75, p 279 states 8,000,000 tons dd-ind at 0.58 vanadium per ton.
ONT-46	MANITOU ISLANDS Nova Beaucage ML 31 L/5 46°15'15" 79°34'45"	Uranium pyrochlore in either altered syenitic and pyroxenitic rocks, or carbonatite. Mag, py and po present. Great Manitou contains 20-60% apatite.	1952-56: discovery, sampling, dd, 50 tpd pilot mill, 442' shaft with u/g dev on 2 levels, small prod. 1971-72: mag survey, dd.	(i) Newman Island: 3,596,120 dd-ind at 0.627% Cb_2O_5, 0.032% U_3O_8 1972 (CMH 1973-74, p 261) (ii) Great Manitou Island: 27,000 dd-ind at 0.38%	Minor pilot plant production bt 1954-56. Beaucage reported, in 1956, 1,893,000 at 0.049% U_3O_8, 0.86% Cb_2O_5 and 2,962,000 at 0.041% U_3O_8, 0.69%

				Cb_2O_5, 0.104% U_3O_8, 10% P_2O_5 1953 (iii) Rankin Island: "a major tonnage of low grade material" 1953 (O E Owens 10/08/56 for Beaucage ML)	Cb_2O_5 in Newman zone. All tonnage 200' below lake bottom (FP Corp Serv, Nova Beaucage ML, 03/07/62).
ONT-47	ANGUS Titan Iron ML 31 L/14 46°51'24" 79°29'55"	Titaniferous mag ore occurs as elongate lenses and pods in highly altered diabase surrounded by granite.	1931: government mapping. 1947: geol, trenching, dd. 1952: airborne and ground geoph.	15,000,000 at 17% TiO_2, 43% Fe 1947 (L & P Moyd, unpubl rept, 1956)	
ONT-48	AJAX Kanichee Mng Inc (in 1978) 31 M/4 47°06'16" 79°50'45"	Ni-Cu mineralization in a zone 200-400' wide by 1,000' long along the margin of a semi-circular peridotite. Narrow irregular veins carry these mnrls as well as Au, Ag and Pt.	1910: first staked. 1919: dd. 1929: platinum discovered. 1933-37: shaft to 245' with lateral work on two levels; 3,318 tons milled yielded Cu-Ni-Au-Ag-PTG. 1947-49: geol, geoph, dd. 1972: feasibility and metallurgical tests, resource calculation. 1974-76: 500 tpd o/p prod.	429,376 at 0.75% Cu, 0.42% Ni plus Au-Ag-PGM before prod 1971 (NM 18/01/73) plus 'A' orebody, S of shaft, est 250,000 t lower grade Cu-Ni (CMH 1977-78, p 170)	The mine was forced to close when on Feb. 6, 1976 Falconbridge Nickel terminated its contract to buy the concentrates. C.1,393,144 lbs Ni and 3,117,490 lbs Cu were recovered from 278,263 tons milled.
ONT-49	BEANLAND Alex Perron (in 1975) 31 M/4 47°05'28" 79°49'35"	Au bearing qtz vein network in mafic metavolcanics.	1934: discovery. 1936-37: surface trenching, dd, shaft 505', u/g dd, crosscutting, drifting and raising. 1946: u/g dd.	proven & ind: 12,619 at 0.272 oz/t Au, 1.8 oz/t Ag over 5.4' mng width 1937(G R McLaren 28/04/50 in Prospectus, Clenor Mng CL, 30/06/53)	Small tonnage - little prospects.
ONT-50	DIADEM Copperfields Mng Corp L (in 1970) 31 M/4 47°02'32" 79°49'28"	Py with minor cp, pn occurs both in disseminated and massive form in border phase of an Archean diorite sill.	pre-1952: pits, trenches. 1952-56: geoph, dd. 1960: EM. 1965: geoph. 1970: geol surveys, helicopter EM.	poss: 500,000 at 0.5% Cu, 0.1% Ni to 400' 1956 (Ont MRC 2, p 108, 1957)	Zone is 700' long and probably 15' wide.
ONT-51	HERMISTON-McCAULEY Cominco L (in 1971) 31 M/4 47°05'55" 79°49'40"	Qtz veins in altered qtz diorite sill.	1936-38: trenching, dd, 457' shaft, u/g drifting, crosscutting and dd.	proven: 8,998 at 0.5 oz/t Au in 3' width 1938 (OGS MDC 18, 1979, p 25)	During u/g dev some 1,421 tons of ore were hoisted. This may be part of resource figure.
ONT-52	KEELEY AND FRONTIER Keeley-Frontier Res L 31 M/4 47°11'40" 79°30'15"	Native Ag in carbonate veins and vein fault systems in Nipissing diabase and metavolcanics. Also present are Co, Ni and Cu.	1907: discovery. 1908-42: Keeley intermittent prod 12,154,353 ozs Ag plus Co, Ni. 1921-65: Frontier intermittent prod 7,043,060 ozs Ag plus Co, Ni, Cu. 1972: dd, minor prod. 1973-74: expl programme. 1980: bulk sampling, dd.	proven: 50,000 at 5.4 oz/t Ag 1974 ? (NM 18/09/80)	Plan dd and drifting in Beaver fault area when financing can be arranged.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-53	MANITOBA and EASTERN Penrose GML (in 1970) 31 M/4 47°05'37" 79°47'50"	Discontinuous gold arsenide qtz veins in mafic metavolcanics.	1909: worked for arsenic and copper. 1934-37: dd, u/g drifting, crosscutting and dd, shaft to 525'.	ind: 600,000 at 0.21 oz/t Au 1938 (FP Surv Ms 1970, p 124)	This mine was allowed to flood in 1937. Subsequent owners have not reported any work.
ONT-54	COBALT LAKE Agnico-Eagle ML 31 M/5 47°05'37" 79°41'08"	Silver in tailings from old Cobalt Lake Mine operations.	1908-43: lake drained, mine prod of c 7 million ozs Ag. 1946-54: unsuccessful attempts to drain u/g workings. 1966-69: 303,248 tons of tailings treated.	1,000,000 at 4 oz/t Ag 1966 (Agnico ML, 1966 AR)	Average grade of tailings treated between 1966-69 was 2.98 oz/t Ag and recovery 66.75%.
ONT-55	SLATE CREEK (BIG AGAUNICO) Cons Professor ML 31 M/5 47°24'20" 79°36'45"	Ag-Co veins traversing Cobalt series sediments. Py, cp also present.	1952: dd. 1979: dd and u/g expl access decline. 1981: dev suspended.	ind: 100,000 at 0.5% Co 1981 (NM 31/12/81)	Teledyne Canada has been exploring property since leasing it in 1979. U/g dev includes access decline to intersect Co zone at 400'.
ONT-56	PENN-COBALT Agnico-Eagle ML 31 M/5 47°22'20" 79°40'00"	Ag-Co calcite veins within Cobalt sediments and Keewatin volcanics. Also present is a base metals zone consisting of sph, gal, cp,py and po in chert.	1905-56: discovery, intermittent prod totalling 1,160,000 ozs Ag plus Co, Ni, Cu. 1951-52: discovery of base metal zone. 1965: further expl.	200,000 at 2.42% Zn, 1.62% Pb, 0.38% Cu, 0.85 oz/t Ag 1952 ? (Ont PR 1961-6, p 71-72, 1961)	A base metals mng project planned in 1952 was cancelled due to the small tonnage and the very limited possibility of finding ore at depth.
ONT-57	AMALGAMATED LARDER Larder Res Inc 32 D/4 48°07'02" 79°39'58"	Scattered sulphide bodies containing gold occur in the lava-tuff-carbonate horizon of the Larder Lake 'break'. The horizon extends across the property for 3.5 mi.	1922-47: surface and u/g dd, shafts to 1,083', 547' and 404', considerable drifting and crosscutting. 1975: dd. 1978-81: dd.	(i) Cheminis 'C': 120,800 at 0.151 oz/t Au (ii) Cheminis 'A': 69,080 at 0.120 oz/t Au (iii) Fernland: 47,900 at 0.148 oz/t Au (iv) Barber-Larder: 99,100 at 0.181 oz/t Au, all ind, undil, 1981 (Larder Res Inc Rept to shareholders, 04/06/81)	Kerr Addison ML conducted the recent work under an option agreement.
ONT-58	BOSTON MOLYBDENUM Boston Molybdenum ML (in 1970) 32 D/4 48°01'40" 79°58'20"	Finely disseminated and erratic heavy flakes, streaks and patches of mo in qtz-carbonate veins within syenite porphyry.	1942: surface work. 1966: trenching, pitting. 1980: geoph, dd. 1981: tr, sampling, dd.	1,800' x 8-55' at 0.38-1.08% Mo 1966 (NM 28/07/66)	Lampe Res CL hold the property.
ONT-59	CRESTLAND Pyx L 32 D/4 48°09'24" 79°50'48"	Auriferous qtz veins in syenite porphyry close to contact with sediments.	1920-29: shaft sunk to 1,020'. with 4 levels, dd. 1944-49: dd, trenching.	750' x 2' at 0.21 oz/t Au 1949 (FP Surv Ms 1954, p 235)	U/g work encountered discontinuous gold mineralization.

ONT-60	MARTIN-BIRD Thunderwood Expls L 32 D/4 48°03'12" 79°39'58"	Au along edges of qtz-carbonate veins and also in sulphides in altered Timiskaming greywacke.	1933-39: 2 shafts both to 401', u/g and surface dd, drifting, crosscutting. 1972-74: dd, mill tests. 1977: feasibility study on possibility of leaching Au or shipping to Kerr Addison mill - results N/A. 1980: trenching, dd. 1982: geochem, geoph.	ind: 558,000 at 0.114 oz/t Au plus 158,000 at 0.20 oz/t Au 1982 (CMH 1981-82)	Access road, bridge and soil stripping done in preparation for o/p mining a joint venture with Lac Mnrls L who plan to drill early in 1983.
ONT-61	McCREA (MARSHALL) Marshall Mnrls Corp 32 D/4 48°02' 79°56'	Au in two parallel irregular qtz veins in shear zone in meta-volcanics.	1939: stripping, trenching. 1962-80: idle. 1981: dd. 1982: sampling	est: 143,000 at 0.143 oz/t Au 1981 (NM 16/07/81)	Leased to MGQ Inc who sent 610 t to Kerr Addison mill in 1982 - gave uncut grade of 0.3 oz/t Au. Stock-piling from Veins 1 and 2 during 1982.
ONT-62	OMEGA Lenora Expls L 32 D/4 48°07'06" 79°41'55"	Gold ore mainly in two narrow dacite lava flows as well as in dolomite, within Larder Lake 'break' carbonate chlor-ite schist.	1914-28: discovery, shafts to 1,050' and 1,200', prod. 1936-48: No 1 shaft to 1,592' and winze to 2,000', total prod, incl earlier work, of 1,615,000 tons. 1950: dd. 1966-73: stripping, trenching, dd. 1980-81: geoph, dd, sampling 1,992' dd, feasibility study.	60,000 at 0.1 oz/t Au on one tailings claim 1972 (Card Lake Copper ML 27/06/73 prospectus) Lowe: 75,000 at 0.15 oz/t Au 1982 (NM 07/10/82)	Lenora Expls in 1980 acquired 2 claim groups covering prop-erty. Tailings con-tain 200,000 tons at 0.15 oz/t Au. Con-sidering heap leach treatment.
ONT-63	RAVEN RIVER (LAGUERRE) R A MacGregor 32 D/4 48°06'04" 79°42'34"	Algoman dykes and irregularly shaped intrusive bodies intrude Timiskaming rocks. Auriferous qtz veins occur in altered syenite intrusives.	1906: first discovery of gold in Larder Lake area. 1912-13: shaft, small prod. 1931-39: 75 tpd mill erected, shaft deepened to 716', 40,514 tons milled from 1937-39. 1947: Laguerre shaft to 778'. 1970-76: EM, mag, dewatered and rehabilitated Raven River shaft, 6,580' in 65 u/g ddhs. 1978: dd on Knutson and Raven River zones. 1980: dd.	(i) Raven River: 11,000,000 at 0.05 oz/t Au to 2,000' 1939 (R A MacGregor 10/01/78, written commun) (ii) Laguerre: 50,680 at 0.128 oz/t Au (iii) Knutson: 26,100 at 0.205 oz/t Au 1978 (Sudbury Contact ML, 1978 AR)	Sudbury Contact ML optioned the property and has conducted the work since 1975.
ONT-64	ROYADO (CATHROY) Royado ML 32 D/4 48°00'50" 79°49'45"	Au in narrow py, qtz-carbonate, qtz-tourmaline and qtz seams in sheared, silicified and carbonatized agglomerate.	1938-48: 540' shaft with 4 levels, u/g and surface dd, about 22,000 tons milled. 1957: minor prod. 1960-64: shaft dewatered, workings remapped, u/g and surface dd. 1980: mapping geoph, dd. 1981: stripping, dd, installed portable plant.	ind: 435,000 at 0.23 oz/t Au above 400' level 1963 (Mirado Nickel ML, 1963 AR)	Mineralization erratic and extensive u/g work needed to substantiate tonnage and grade. Amax of Can L optioned property in 1980.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-65	SHELDON-LARDER Sheldon-Lardcr ML 32 D/4 48°07'10" 79°36'05"	Gold in qtz veins or stock-works in carbonate bodies within basic dykes and shear zones.	1908: surface work, minor prod. 1937-38: surface dev, dd. 1974-75: deep dd, u/g drive from Kerr Addison.	121' x 3.25' at $7.40/t Au plus 3 shoots 100-200' x 2-10' at $3/t Au 1938 (Ont AR 1941, pt 7, p 91)	Report on recent drive N/A. Optioned in 1980 to Denison ML, terminated in Dec. 1982.
ONT-66	UPPER BEAVER Queenston GML 32 D/4 48°10'04" 79°46'01"	Cp, mag, py occur in narrow shear zones largely within a syenite porphyry. Some native Au is present but most Au is associated with sulphides.	1912-44: shaft to 520', winze to 1,250', intermittent prod, 131,585 tons milled. 1950-51: geoph, dd. 1961-62: surface dd, some u/g work. 1965-72: 448,977 tons milled at Upper Canada's mill. 1973-74: geoph, dd.	75,500 at 0.24 oz/t Au, 1.35% Cu 1972 (Upper Canada Res L, 1973 AR)	
ONT-67	UPPER CANADA MINE Queenston GML 32 D/4 48°08'28" 79°49'22"	The Larder Lake 'break', which consists of a carbonate chlorite schist zone, cuts the area's Timiskaming volcanic and sedimentary rocks. Au occurs in silicification fractures and in py within the 'break'.	early 1920's: trenching. 1928-29: shaft to 135'. 1936-37: u/g dev resumed. 1938-71: milling of 4,734,617 tons of ore, shaft sunk to 6,296'. 1980: surface mapping, geoph. 1981: dd.	prov and dd-ind: 640,000 at 0.265 oz/t Au c 1971 (CMH, 1982-83, p 279)	Resources are calculated from 6,150' (which was the mine's deepest level) to 6,650'. Mng ceased in 1971 due to the low prevailing prices. 1981 dd showed "M" & "Q" to be extensive zones grading 0.10 to 0.13 oz/t Au. Mill is being rehabilitated to process ore from McBean mine.
ONT-68	BUFFONTA Buffonta ML (in 1976) 32 D/5 48°28'34" 79°56'46"	Minutely fractured basalt contains Au in qtz-carbonate veinlets.	1919-35: trenching, stripping. 1936-47: dd, o/p reached 80' x 60' x 30', 50 tpd mill erected, 37 ozs Au recovered.	85,000 at 0.286 oz/t Au (Ont AR 1944/1949, Pt 4, p 22)	
ONT-69	COIN LAKE Coin Lake GML (in 1974) 32 D/5 48°28'25" 79°45'25"	Py, gal in mafic volcanics and also in qtz zone within the volcanics.	1917: pitting, shaft to 48'. 1945: dd.	200' x 2.5' at 0.25 oz/t Au 1945 (Ont AR 1951, Pt 7, p 27)	A 1,820 lb sample avg 0.7 oz/t Au.
ONT-70	HARKER Golden Harker Expls L 32 D/5 48°27'50" 79°46'50"	Fault-fissure vein 6-12' wide and 3,000' long roughly parallel to basaltic flows. Native Au and also Au in py.	1924-29: 5 level No 1 shaft to 1,000', drifting, crosscutting, dd, No 2 shaft to 58'. 1960: a little surface expl.	47,776 at 0.25 oz/t Au to 500' level 1929 (Ont AR 1951, Pt 7, p 33)	In 1981, property was optioned to Phelps Dodge Corp of Can L.
ONT-71	HARLIGHT Tumac Mng & Dev CL (in 1965) 32 D/5 48°28'45" 79°47'00"	Qtz stringers containing py, cp, gal, Au in rhyolite.	1933: dd. 1941-47: mag, dd. 1961: surface work.	1,200' x 6' at 0.144 oz/t Au 1933 (Ont AR 1951, Pt 7, p 34)	

ONT-72	BIRD-GINN (MATHESON) Johns-Manville Can Inc 32 D/12 48°31'35" 79°57'50"	Ultrabasic peridotite hosts the asbestos orebody.	1950-52: dd, geoph survey. 1968-70: expl shaft to 314', u/g dev and dd, surface dd, concrete bulkhead, feasibility study incomplete.	ind: 25,000,000 Asb, grade unstated 1970 ? (Johns-Manville Corp, 10-K, 31/12/74) or 33,000,000 at 9.75% Asb 1981 (P A R Brown, oral commun, 23/04/81)	Ready for dev to prod when needed.
ONT-73	CASE Dey L (?) (in 1975) 32 E/4 49°02' 79°56'	A complex pegmatite dyke containing spodumene.	pre-1960: surface work. 1975: trenching, dd, 4 km road being built. (?)	825' x up to 100' at 10-15% spodumene 1960 ? (Ont GR 8, p 45, 1962)	Dey L planned in 1976 to mine feldspar and mica from a pegmatite dyke in this area - possibly this dyke.
ONT-74	DETOUR LAKE Amoco Can Petroleum CL 50% Campbell Red Lake ML 50% 32 L/4 50°00'50" 79°43'20"	Silicified sulphide-bearing mafic metavolcanics. Besides Au there are minor Cu and Ag concentrations.	1974: discovery by airborne geoph, ground EM survey. 1975-76: 136,000' of dd in 129 holes. 1977-78: 2,500' decline, drifting, crosscutting, u/g dd, 100 ton bulk sample, feasibility study completed. 1979-81: dd, site preparation.	27,733,000 mt at 3.88 g/t Au, 4.66 g/t Ag, 0.205% Cu 1980 (Dome ML, 1981 AR)	Potential for additional tonnage is excellent. Decided in 1981 to bring to prod late 1983 after spending $143 million. Initially to mine by o/p at 2,000 tpd, increasing to 4,000 tpd in 1987 when operation will shift to u/g mining.
ONT-75	FOSTUNG Sulpetro L (50%) Union Carbide Can L (50%) 41 I/4 46°14'17" 81°38'38"	Scheelite, powellite, po, py, cp, sph, mo and asp dis in qtz veins and skarn within carb and elastic sediments.	1966-67: geol and mag survey, 6 ddh 3,079'. 1980: dd 6,000'. 1981: 3 ddh 21,180'.	W minor Mo (Sulpetro L, 1981 AR) Assays over 1% WO_3 in mineable widths but short sections (ODM MRC 12, 1969, p 242)	1981 dd extended reserves indicated previously. Further work to be done.
ONT-76	OWEN PROSPECT (MONGOWIN PLUTON) F Owen & Assocs. 41 I/4 46°11'11" 81°48'00"	Po, cp and py dis in ultramafic phase of a 2,600' by 1,400' Middle Precambrian composite pluton.	1929-36: discovery, trenching, sampling, mag survey. 1937: minor dd. 1951-52: EM survey, dd. 1956: dd.	92,610 at 0.53% Ni, 0.27% Cu undiluted to max 350' 1970 (MPS RF, J F Owen)	A subsequent review of the method of resource calculation suggested that both tonnage and grade had been overstated.
ONT-77	BRISMIL Spanish River ML (in 1975) 41 I/5 46°21'55" 81°45'29"	Cp, py and po in nearly vertical body 1,500' long by 650' deep within Pre-Huronian qtzites and conglomerates. Mineralization in highly siliceous matrix.	1929: trenching, 5,665' dd. 1955-56: trenching, 7,321' dd. 1962-65: 14 ddhs totalling 7,193'. 1967-70: dd, shaft to c 400', prod of 146,316 tons Cu-Ag-Au ore from main zone, mine put on standby in 1970.	dd-ind: 1,094,300 at 1.49% Cu (Spanish River ML 23/04/68 prospectus) plus 1,000 T/VF at c 2.35% Cu over 11' x 1,000', west of main zone. 1968 (Ont SMDR 000833, 1971)	The highly siliceous Cu ore was considered as smelter flux before Kidd Copper (operator) and Spanish River, both surrendered their charters.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES		REMARKS
ONT-78	ELLA LAKE (FENSOM) Cam ML (in 1972) 41 I/5 46°18'12" 81°32'26"	Mineralization concentrated in a wedge bt 2 faults in Mississagi greywackes and qtzites intruded by diabase. Sph with lesser cp, py and po enclose or replace greywacke fragments.	1928: trenches, 4 ddhs. 1952: geochem survey, 29 ddhs. 1972: mag and VLF-EM surveys.	dd-ind: 156,000 at 5.17% Zn, 0.30% Cu plus 49,000 at 4.8% Zn in narrow zones 1952 (Teck-Hughes GML, 1952 AR)		The larger tonnage occurs over a width of 8.86'. Mineralization has been found to a depth of 600'.
ONT-79	MASSEY-TINTINA (ALEXANDER) Tintina ML 41 I/5 46°16'36" 81°58'30"	Cp occurs in fractures and massive lenses within an EW trending highly silicified fault zone where this zone is in contact with andesitic volcanics.	1967: surface work, dd. 1974: Devon Res L have erected a 100 tpd mill. 1979-80: 200 tons shipped, feasibility study begun.	dd-ind: 184,984 at 1.84% Cu to 300' depth 1967 (J W MacLeod 31/01/79 rept for Tintina SML in VSE SMF 24/01/80)		Test on a 200-ton bulk sample of siliceous copper ore found it satisfactory as a fluxing material in the smelting operation.
ONT-80	NORANDA SHAKESPEARE Broulan Reef ML (in 1968) 41 I/5 46°20'30" 81°49'50"	Cp, po, py with minor gal and chalcocite in a fault zone cutting sediments.	1920: trenching. 1956: surface work, geoph, dd. 1968: geoph, dd.	1,900' x 10' at 0.97% Cu 1956 (Ont MRC 2, p 97, 1957)		Drilling in 1968 found the sulphide distribution to be irregular.
ONT-81	SUDBURY SHAKESPEARE Falconbridge L 41 I/5 46°21'00" 81°49'47"	Po, cp and pn occur as blebs and stringers in highly sheared Nipissing gabbro. At surface the mineralized zone is about 2,500' x 20-160'.	pre-1920: discovery. 1920: trenching. 1942-46: geoph, dd. 1951: additional dd.	3-4 million at 0.34% Ni, 0.40% Cu with minor U, Pt, Pd, Re and Au 1951 (Ont GR 139, p 42, 1976)		Located 40 mi W-SW of Sudbury.
ONT-82	CLARABELLE-COPPER CLIFF NORTH Inco Mtls C 41 I/6 46°29'40" 81°04'25"	Massive sulphides, cp, po and pn, occur in a brecciated zone at the contact of norite with greenstone and granitic gneiss within the Copper Cliff offset.	1884-1902: discovery, o/p mng. 1960-78: mng operations; Clarabelle No 1 pit ceased in 1973, No 2 pit on standby in 1974, Copper Cliff North u/g operations put on standby in 1978. 1979: Clarabelle o/p operations resumed.	N/A	Ni-Cu	Copper Cliff North is being maintained on standby basis. Over 23 million tons of Ni ore has been mined from both the Clarabelle o/p and Copper Cliff u/g.
ONT-83	CREAN HILL MINE Inco Mtls C 41 I/6 46°25'45" 81°21'05"	Cu-Ni bearing sulphides in matrix and as veinlets in conglomerate and greenstone breccia at the SW edge of Sudbury Irruptive.	1885: lots first granted. 1905-14: mng by o/p and u/g at c 300 tpd, operations suspended. 1916-15: mng resumed, shaft to 797', u/g and surface equipment removed. 1937-38: extensive dd. 1950-61: shaft dewatered, u/g dd, new shaft, u/g dev. 1964-78: mng operations, prod c 4,500 tpd in 1975.	N/A	Cu-Ni	The mine was put on a standby basis in mid-1978. Up to 1974, over 8 million tons of Cu-Ni ore were mined.

ONT-84	GERTRUDE Inco Mtls C 41 I/6 46°27'32" 81°13'35"	Mineralization of the breccia type with sulphides cementing fragments of norite and volcanic rocks.	1892: discovery. 1899-1903: test pits, adit, shafts to 80' and 60', 100-150 tpd smelter.	ind: over 500,000 Ni-Cu, grade unstated 1903 (Royal Ont Ni Comm, p 47, 1917)	The mineralized zone is over 3,100' long.
ONT-85	LONG LAKE GOLD MINE Hartland ML 41 I/6 46°18'22" 81°08'48"	Tailings pond. In the mine the ore consisted of auriferous qtz veins in sheared meta-sandstone.	1908-17: u/g dev, mng. 1934: 200 tons ore tailings mill built but did not operate. 1936-39: 75 ton mill erected, u/g and surface prod. 1972-73: feasibility study conducted on recovery of gold from tailings, surface expl, dd.	250,000 at 0.072 oz/t Au in tailings 1972 (Ont OFR 5156, p 192, 1975)	Total tonnage recorded milled from the mine was 221,070 with 56,925 ozs Au plus Ag recovered.
ONT-86	McVITTIE-GRAHAM West Graham ML 41 I/6 46°26'05" 81°18'35"	Disseminations to stringers of po, pn and sph in qtz diorite about 1,000' above the lower contact.	1944: property acquired. 1960-61: 6 ddhs. 1969-70: 22 ddhs, metallurgical tests.	dd-ind: 2,500,000 at 0.63% Ni, 0.38% Cu 1970 (NM 18/06/70) or 4,300,000 at 0.52% Ni, 0.33% Cu to 1,300' 1981 (Conwest Expl CL 13/05/81)	The metallurgical study indicated that mng was not feasible at that time and the property has remained idle.
ONT-87	TOTTEN Inco Mtls C 41 I/6 46°22'43" 81°27'35"	Sulphides concentrated in central parts of Worthington qtz diorite where intense crushing took place. Mineralization incls po, pn, cp, gersdorffite and niccolite.	c 1885: 90' shaft. 1906-07: shaft dewatered, small smelter erected, mng. 1928-29: geol mapping and dd. 1964-72: No 1 shaft to 1,057', No 2 shaft to 4,134', u/g dev, prod bt 1966-70 incl 969,779 tons processed at Clarabelle mill.	N/A Ni-Cu N/A Ni-Cu	Totten No 1 was mined out and No 2 was put on standby in 1972. It was slated to produce at 1,500 tpd.
ONT-88	WORTHINGTON MINE Inco Mtls C 41 I/6 46°23'01" 81°26'50"	Disseminated to massive po, pn and cp with niccolite and gersdorffite in groundmass of qtz diorite dyke.	1884: discovery, 60' shaft. 1890-94: mng operations. 1902-27: dewatered, u/g dev in 3 shafts, u/g dd, more than 999,958 tons were hoisted.		The mine was forced to close in 1927 due to a disastrous cave-in. No further work has been reported.
ONT-89	WANAPITEI Northern Kyanite ML (in 1959) 41 I/7, 10 46°30'00" 80°42'30"	Kyn-gnt-bio-qtz-feldspar gneiss over 400' wide by 1/2-3/8 mi long. Kyn crystals, either banded or prismatic, range from 1/4-4" long and 1/16-1/2" wide.	1952-59: staked, dd, bulk sampled, process and marketing researched.	dd-ind: 6,000,000 at 13.71% kyn to 100' depth 1958 (CMH 1959, p 167)	Of the total, showing C has an indicated tonnage of 1,965,394 at 18.27% kyn over 2,000' x 140'.
ONT-90	ALWYN PORCUPINE-BURDA Anglesea Dev L 41 I/10 46°42'05" 80°37'48"	Sulphide mineralization in qtz carbonate veins within Gowganda Fm conglomerate.	1902: 186' shaft with 2 levels and 165' drifting, 40' shaft. 1939-42: small dev. 1949-50: dump sampled, dd. 1956: dd. 1959: dd. 1981: dd.	600' x 15' at 0.22 oz/t Au, 0.42% Cu 1951 (Ont GR 2, p 28, 1960) plus in dump: 7,000 at 0.196 oz/t Au, 2.99% Cu 1949 (E K Fockler 01/06/49 in Alwyn Porcupine ML, Info Bull, May 1950)	The resource est in the dump is based on 11 spaced samples. Au bearing material from dump was shipped to custom mill in Gogoma area in 1980.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-91	FALCON GOLD MINE Falcon GML (in 1937) 41 I/10 46°34'05" 80°44'15"	Auriferous py in talc-actinolite shear zone within calcareous sediments.	pre-1934: shaft to 46', cross-cut. 1934-37: deepened shaft to 215', dd.	18,000 at $11.30/t Au to 200' 1935 (NM 19/09/35)	Au at $35 U.S./oz.
ONT-92	FALCONBRIDGE TWP Inco Mtls C (in 1978) 41 I/10 46°35'22" 80°45'50"	Po and cp occur in the greenstone at the greenstone-norite contact.	c 1900: dd. 1955: systematic dd.	'proven': 1,000,000,000 Ni-Cu, grade unctated c 1915 (Royal Ont Ni Comm, p 48, 1917)	Inco drilled deposit in 1955 but did not release any results.
ONT-93	KELLY-K Summit Expls & Hldgs L (in 1970) 41 I/10 46°43'02" 80°33'10"	Four qtz carbonate veins within gabbro intruded into Gowganda sediments.	1964: EM survey. 1966: mag and SP surveys, dd totalling, 1,752'.	330' x 1.5' at 5.18% Pb, 0.75% Cu, 0.09 oz/t Au, 1.0 oz/t Ag 1966 (Ont MRC 12, p 252, 1969)	Mineralization diminished with depth. No tonnage estimate was given post drilling.
ONT-94	LINDSLEY Falconbridge L 41 I/10 46°33'30" 80°59'25"	Probably po, pn and cp at the contact of norite and gabbro with mafic volcanics.	1886-1937: work record N/A. 1950's: extensive dd. 1970-71: shaft sunk 270', u/g dev halted.	prob: 4,295,000 at 0.85% Ni, 0.68% Cu Dec. 1970 (FP Corp Serv, Falconbridge Nickel ML, 06/10/78)	Development was stopped October 1971 due to prevailing economic conditions.
ONT-95	MACKENZIE MINE E J MacKenzie (in 1973) 41 I/10 46°40'50" 80°33'36"	Qtz stringers in conglomerate and greywacke.	1897: 2 shafts to 35' and 100'. 1935-35: drifting in deeper shaft, mill erected, 45 tons milled yielded 8.1 oz Au, $3 Ag.	ind: 7,692 at 0.87 oz/t Au 1935 (CMH 193, p 147)	
ONT-96	NICKEL RIM MINE Falconbridge L 41 I/10 46°40'25" 80°48'15"	Po, pn, cp and py as massive or breccia sulphides in qtz diorite along norite-granite contact.	pre-1901: discovery, trenching. 1914-18: o/p mng. 1929-30: shaft sinking, u/g dev, deep dd, mag survey. 1942-47: extensive dd. 1950-52: u/g dev, mill erected. 1953-58: 14,068,600 lbs Ni and 6,218,000 lbs Cu recovered from 1,276,633 tons milled.	in place & broken: 747,624 at 0.35% Cu, 0.90% Ni 1958 (Nickel Rim ML, 1958 AR)	Falconbridge acquired the property in 1964 and no further work has been reported.
ONT-97	NORSTAR Berkeley ML 41 I/10 46°39'35" 80°31'05"	Mineralized zones consist of brecciated argillite in which the fragments are cemented by qtz-carbonate veins and sulphides. The sulphides consist of py, cp and asp. Cobalt values of 0.80 lbs/ton for a core length of 35.6' were recorded in 1979.	pre-1916: shaft to 87'. 1917: shaft deepened. 1927-30: continued work on shaft, drove an adit. 1941: dd. 1955-64: new shaft to 277', 2,300 tons hoisted, EM, mag, dd. 1972-76: dewatered working, sampling, dd; trenching. 1979: dd. 1980: feasibility studies.	ind: 91,586 at 0.202 oz/t Au, 1.21% Cu to 312' 1972 (CMH 1978-79, p 40) or 275,000 at 0.41 oz/t Au, 1.5% Cu to 400' pre-1958 (Kirkland Mnrls Corp L, 1958 AR)	Stampede Intl Res Inc is financing an exploration programme which began in 1979 by Berkeley's parent company, Groundstar Res L. Estimated cost to production is $1.25 million.

ONT-98	SUDORE (WANAPITEI BASIN) Northgate Expl L 41 I/10 46°38'30" 80°37'10"	Au bearing qtz fissure veins in sediments and sulphide mineralization in gabbro. Ore mnrls incl py, po, cp, asp and Au.	1933-34: trenching, dd. 1944-45: dd. 1972-73: EM and mag surveys, dd. 1975-79: dd. 1980-81: dd, feasibility studies, bulk sampling of E-W zone.	dil mineable ore reserves: (i) East-West: 25,600 at 0.22 oz/t Au (ii) North: 6,000 at 0.28 oz/t Au (iii) Intermediate: 109,000 at 0.24 oz/t Au or Total: 140,600 at 0.27 oz/t Au 1982 (Northgate Expl L, 1982 AR)		E-W and N zones to be eventually mined by o/p, Intermediate zone u/g from decline ramp. Westfield Mnrls L optioned property in Mar. 1983 and plan further mine studies.
ONT-99	COLEMAN MINE Inco Mtls C 41 I/11 46°40.5' 81°20'	Assumed to be similar to other deposits in Sudbury Irruptive area - probably an extension of the Strathcona orebody.	1964: drilling, crosscuting from Strathcona #2 shaft, dd. 1971: prod.			On standby, Mar. 1982 due to weak Ni demand.
ONT-100	ERRINGTON MINE Giant Yellowknife ML 41 I/11 46°32'15" 81°15'30"	Py, sph, gal, cp, marcasite and minor po with low Au and Ag as irregular replacement masses in Vermilion Fm carbonate and chert horizons.	1897-1909: discovery, 85' shaft on Stobie Falls, 200' shaft on Oliver, 98' shaft on Balfour with small prod. 1923-31: extensive surface and u/g dd, 3 vertical shafts, u/g dev and prod of 186,172 tons Cu-Pb-Zn ore. 1951-54: considerable u/g dev. 1955-57: dd, u/g dd, new prod shaft, prod of 19,129 tons Cu-Pb-Zn ore. 1977: shafts reported as flooded.	ind: 4,418,500 at 1.33% Cu, 1.0% Pb, 3.97% Zn, 0.026 oz/t Au, 1.61 oz/t Ag in low pyrite ore plus 9,038,317 at 1.14% Cu, 0.99% Pb, 3.82% Zn, 0.023 oz/t Au, 1.58 oz/t Ag in high pyrite ore 1959 (FP Corp Serv, Giant Yellowknife ML, 08/06/60)		The mine closed due to serious metallurgical recovery problems. The resource figures include 10% dilution for Vermilion Lake deposit and 15% dilution for Errington Mine (see 41 I/11, Vermilion Lake). Re-evaluation and metallurgical testing began in 1978 and continued through 1981.
ONT-101	LEVACK EAST Inco Mtls C 41 I/11 46°39. 81°22'	Assumed to be similar to other deposits in Sudbury Irruptive.	1975-77: u/g dev to bring deposit into prod.	N/A	Ni-Cu	The deposit was scheduled for production in 1983 but development was deferred in 1977.
ONT-102	MURRAY MINE Inco Mtls C 41 I/11 46°30'48". 81°04'00"	Breccia ore and high grade stringers and lenses at the base of the Sudbury Irruptive. Mineralized zone of cp, pn, po and mo about 1,500' long by 500' wide.	1883: discovery. 1890-94: dd, o/p mng. 1913-25: dd, u/g shaft, mng operations intermittent. 1950-71: o/p mng, u/g dev and mng to 4,163' level, mng rate reached 6,850 tpd in 1971.	N/A	Ni-Cu-Mo-Pt-Ag	Mine closed and maintained on a standby basis since 1971.
ONT-103	ONAPING Falconbridge L 41 I/11 46°38' 81°23'15".	Sulphides on NW side of Sudbury Irruptive.	1942: discovery, dd. 1953-54: dd. 1955: 5 comp. shaft to 3,145'. 1960: dd. 1961: prod, dd, shaft to 4,989'. 1975-79: maintained on standby. 1979-82: prod until June.	N/A	Ni-Cu-Pt	Closed when Falconbridge L, Sudbury ops cutback in 1982, did not reopen Jan. 1983.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-104	NORTH RANGE Inco Mtls C 41 I/11 46°44'28" 81°03'08"	Situated on north side of Sudbury Irruptive.	1968-71: expl shaft to 3,175', u/g dev on 3,000' level, dd.	N/A Ni-Cu	Although a developed body, exploration results are not available.
ONT-105	VERMILION LAKE Giant Yellowknife ML 41 I/11 46°31'11" 81°21'20"	Fine grained massive and disseminated py, marcasite, sph, cp, gal and po as irregular replacement masses in carbonate and cherty horizons. Repetitious orebodies due to thrust faults.	1926: staked, dd. 1951-55: dd, No 4 shaft to 1,341', u/g dev and dd, aerial tramway to Errington mill. 1956-57: prod of 24,443 tons Cu-Pb-Zn ore. 1963-66: metallurgical testing, mine on care and maintenance. 1977: shafts reported as flooded 1980-81: metallurgical studies.	5,077,779 at 1.26% Cu, 0.97% Pb, 3.92% Zn, 0.025 oz/t Au, 1.40 oz/t Ag plus 862,500 at 0.34% Cu, 1.30% Pb, 3.73% Zn, 0.20 oz/t Au, 1.64 oz/t Ag in north zone 1966 (Ont SMDR 000835, 1973)	Operations suspended in 1957 due to severe metallurgical problems. A re-evaluation of resources began in 1978. Fresh core samples taken in 1979.
ONT-106	GENEVA LAKE MINE Geneva Mtls Inc (in 1977) 41 I/13 46°47'35" 81°30'57"	Conformable tabular body in Archean pyroclastics and metasediments. Mainly sph, gal, py with some po and cp.	1928-44: shaft to 400', winze to 640', 80,388 tons milled from 1941-44. 1949-51: dewatered and sampled mine, dd, mill and other buildings constructed. 1972-74: mag, EM, dd, preparation for prod in 1975.	dd-ind: 114,000 at 10% Zn, 3% Pb, and $0.90 precious metals plus dd-ind: 56,000 at c 7% Pb-Zn 1951 (J E Jerome 07/06/72 for Geneva Mtls Inc)	Plans made to resume production in 1952 and 1975 but neither were carried through.
ONT-107	STRALAK Stralak Res Inc 41 I/13 46°48'09" 81°41'50"	Shear zone at mafic metavolcanic contact with metasediments. Zone is 1,500' long and consists of py, po, sph, cp and gal.	1886: trenching, stripping. 1927-29: trenching, pitting, dd. 1948-52: mag, dd. 1964-65: geol, mag, EM and dd. 1981: geoph, 1,500' dd.	363,680 at 3.18% Zn, 0.32% Cu, 0.68 oz/t Ag 1952 (Ont MRC 12, p 235, 1969)	The resource estimate is for the "East" zone; a second smaller zone occurs 1.6 km to the west. New surface discovery noted in 1981.
ONT-108	NEW DOMINION J R McGinn (in 1958) 41 I/15 46°46'11" 80°53'50"	Cp, po and pn mineralization traced 2,600' at the NE corner of Sudbury Irruptive.	1943: ground acquisition. 1946: 8 ddhs totalled 3,464'. 1955: 74 ddhs totalled 36,725'.	dd-ind: 45,000 at 0.9% Ni, 0.75% Cu 1956 (NM 21/06/56)	Drill intersection of 2% Ni over 11' below 700' depth.
ONT-109	VERMILION VALLEY Ver-Million Gold Placer Mng L (in 1964) 41 I/15 46°49.2' 80°57.4'	Placer gold is found in the sands and gravels of old channels of the ancient Vermilion River.	1897: gold discovery. c 1900: small sluicing operation. 1939-47: test pitting, sampling, dd. 1958-61: test pitting, dd.	Immense tonnage of very low grade Au (NMI est)	Samples taken at Onwatin Lake in 1938-40 gave values of 0.004-0.025 oz/yd Au; avg panning Onwatin Lake area gave 0.0006 oz/yd Au.
ONT-110	WHISTLE MINE Inco Mtls C 41 I/15 46°46'25" 80°52'37"	Sulphides mainly cement together greenstone fragments in addition to being disseminated in greenstone. Ore mnrls are po, pn, cp with some mag.	1897: discovery. 1901-13: extensive stripping, dd and test pitting; 50' shaft and 440' adit with u/g dev, bulk shipment for tests.	1,300,000 at 'medium' grade Ni, 'low' Cu 1912 (Royal Ont Ni Comm, p 52, 1917)	A representative type sample assayed 2.76% Ni, 0.10% Cu. Developmental work halted due to discovery of Murray Mine in 1913.

ONT-111	TEMAGAMI Copperfields Mng Corp 41 I/16 46°57'45" 81°02'15"	Pyritic Cu-Ni-Co zones and high grade cp bodies fissure filling or as wallrock replacement along contact of diorite-rhyolite. High grade cp bodies mined.	1900: known Cu mineralization. 1951-54: dd, geoph expl. 1955-72: shaft to 2,535', 200 tpd mill, o/p operations, u/g dev on 14 levels, 2 sub-levels, u/g dd, prod of 724,385 tons Cu-Ag-Au ore.	prob: 770,000 at 1.04% Cu, 0.46% Ni in pyritic zone 1969 (Copperfields Mng Corp L, 1969 AR)	Normal flotation techniques do not produce an acceptable concentrate from the pyritic zone.
ONT-112	HERMINA MINE Hermina Copper L (in 1974) 41 J/1 46°14'55" 82°11'25"	Disseminated to massive cp in qtz veins within Algoman granites and crosscutting Nipissing diabase.	1900-10: discovery, No 1 shaft to 312'; No 3 shaft to 500' with 4 levels; No 2 shaft to 35'; 4 stopes at No 3 (Hermina). 1951, 55: surface expl, dd. 1958-59: mag and EM surveys, dd, surface expl. 1967-71: reconnaissance mag and EM surveys, bacterial leaching feasibility study, dd.	dd-ind: 887,040 at 0.319% Cu plus on surface: 27,500 at 0.33% Cu 1966 (Ont GR 136, p 111, 1976)	In 1971, it was determined that bacterial leaching is feasible in certain areas of mine.
ONT-113	MASSEY Aldona ML (in 1981) 41 J/1 46°14'16" 82°07'11"	Cp with traces of Au and Ag in qtz veins and silicified zones in argillite and qtzite of Pecors Fm. The 3 zones of mineralization are separated by about 1,500'.	1900-05: discovery, 555' shaft with 6 levels, adit, 35-42 tpd concentrator, Cu prod. 1907-11: mine dewatered, sampled. 1915-16: No 4 shaft sunk, prod. 1955-56: dd. 1961-64: EM survey, dd. 1967-70: feasibility studies on bacterial leaching, mng in No 1 shaft and rehabilitated No 4, decline in adit zone, prod 15,000 tons at 2.5% Cu. 1970-71: main mine dewatered and examined.	(i) Main zone: 60,000 'workable Cu ore', grade unstated 1917 (GSC Mem 143, p 130, 1925) (ii) No 4 shaft: 32,000 at 3.55% Cu, $0.80/t Au at $35 US), 0.50 oz/t Ag in 275' x 275' x 5.5' w. (iii) Adit zone: 5,725 at 3% Cu to 180' d x 4.5' w 1965 (Ont GR 136, p 115, 1976)	The resource estimates for the No 4 and Adit Zones were determined prior to the 1968-71 production. The Main zone was not mined after 1905.
ONT-114	PRONTO Rio Algom L 41 J/2 46°12'35" 82°42'25"	A qtz pebble conglomerate at the base of the Matinenda Fm hosts uranium mineralization.	1948-49: initial discovery. 1953-54: dd, shaft sinking, mill erected. 1955-60: u/g dev on 7 levels; 2,264,404 tons at 2.05 lbs/t U_3O_8 mined.	300,000 U_3O_8, grade unstated 1966 (Ont MRC 9, p 8, 1968)	Mine shut down April 1960 due to stretchout programme.
ONT-115	BALD DOME Soo-Bruce Copper L 41 J/5 46°21'35" 83°46'45"	Cp, py, bornite and chalcocite in qtz-carbonate matrix of diabase qtzite-greywacke breccia.	1949: trenched, dd. 1955-56: geochem and airborne mag and EM surveys, 21 ddhs. 1962: EM survey.	500' x 80-100' w at 0.25% Cu 1956 (Ont MRC 12, p 52, 1969)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-116	BRUCE MINE Huron Bruce ML (in 1974) 41 J/5 46°17'50" 83°46'25"	Cp, bornite and chalcocite in qtz-carbonate veins cutting Nipissing diabase..	1846-76: numerous shallow shafts, u/g dev, prod of 47,593 tons at c 20% Cu. 1900-09: workings rehabilitated, small prod. 1915-21: continuous prod of c 161,683 tons Cu ore. 1939-44: surface work, dd. 1955-56: prospecting, geol mapping, dd. 1966-72: dd, rehabilitation of Taylor shaft, dewatering.	ind: 40,000 at 1.8% Cu in Taylor Section 1956 ? (Ont MRC 12, p 53, 1969)	The ore was high-grade and very little developmental work was done.
ONT-117	CAMPBELL DUKES Soo-Bruce Copper L (in 1971) 41 J/5 46°20'45" 83°49'40"	Qtz-cp veins in 1,200' long fracture zone from 6-10' wide along a diabase-qtzite contact.	prior 1949: 60' shaft and 25' crosscut on 50' level. 1955-56: geol, geochem, airborne mag and EM surveys; dd.	ind: 33,000 at 1.2% Cu in 230' 1 x 8' w x 220' d block 1956 (R A MacGregor 1971 for Soo-Bruce Copper L)	Deeper drilling showed little economic mineralization.
ONT-118	PAYNTER R Paynter (in 1966) 41 J/5 46°21'50" 83°30'45"	Two parallel qtz-cp veins, 400' apart, in diabase.	prior 1957: trenching. 1957: trenching, EM survey, dd. 1966: trenching, dd.	732' x 7.1' at 1.87% Cu pre-1967 (Ont MRC 12, p 17, 1969)	Subsequent drilling obtained lower Cu grades over narrower widths.
ONT-119	STEINBERG Soo-Bruce Copper L (in 1971) 41 J/5 46°20'52" 83°48'12"	Spotty cp mineralization in qtz-carbonate matrix of qtzite breccia in Proterozoic Gowganda Fm.	1919: small tonnage mined, 1 ddh. 1941: 3 ddhs totalled 792'. 1955-56: airborne mag and EM surveys, geochem survey, 3,342' dd. 1962: IP survey, further dd. 1967: 3 ddhs.	dd-ind: 47,000 at 1.82% Cu or 124,000 at 1.1% Cu 1956 (R A MacGregor 1971 for Soo-Bruce Copper L)	Drilling in 1962 suggested a 30% increase in tonnage over the 1956 value.
ONT-120	BILTON OPTION W Doughty (in 1968) 41 J/6 46°17'16" 83°10'34"	Cp, py, mag and specularite in qtz veins within brecciated Gowganda Fm slatey greywacke. West body 450' l, east body 400' l, both 7.3' w x 200' d.	1956: 31 ddhs. 1957: tonnage calculation by sink-float method. 1962: resource estimate based on surface sampling.	dd-ind: 95,160 at 1.72% Cu 1956 or 25,000-30,000 at 2% Cu 1962 (Ont GR 17, p 58, 1963)	Subsequent small prod in 1968 of 60 tons grading 0.79% Cu.
ONT-121	BOYEA LAKE Sudbury Contact ML 41 J/6 46°25'50" 83°06'50"	Qtz-cp-carbonate-specularite veins crosscut flat lying Gowganda Fm sediments.	prior 1942: adit and 2 shafts. 1946: mapping, samples, dd. 1952-53: 41 ddhs totalled 8,032'. 1963: 2,973' dd. 1970: further dd.	(i) Adit area: 128,000 prob-poss at 1.95% Cu to 200'-220' (ii) East area: 56,500 ind at 2.98% Cu to 250' 1971 (Sudbury Contact ML, 1971 AR)	The shoots in the East Adit and East Zone were not delimited at depth nor were the ends of the East Zone delimited.

ONT-122	CROWNBRIDGE (CANNON) Can Reserve Oil & Gas L (75%) Silver Spring ML (25%) 41 J/6 46°29'24" 83°01'52"	Cp in qtz vein and in adjacent breccia within interbedded Gowganda conglomerate-qtzite-argillite.	1942: sampled and mapped. 1958-60: 75 ddhs totalled 30,133'. 1963-64: 14,000' dd. 1966-70: 250 tpd concentrator, shaft collared, expl adit, dd, u/g dd, deep dd for uranium expl. 1973-75: examined previous dd records, mill purchased and prop leased, o/p mng in 1975.	dd-proven: 160,000 at 2.03% Cu plus poss: 205,000 Cu, grade unstated pre-1973 (A G MacKenzie 02/11/73 for Cannon ML in VSE SMF 13/11/73)	Operations were suspended Oct 31/75 at 'ready for production stage' pending improved Cu prices.
ONT-123	MASTER (DESTORADA-IRON BRIDGE) Can Reserve Oil & Gas L (75%) Silver Spring ML (25%) 41 J/6 46°26'32" 83°09'35"	Cp, bornite and chalcocite associated with multiple qtz veins cutting Gowganda sediments and mineralized breccia zone in sediments flanking a basic intrusive.	1930: surface work. 1951-52: 23 ddhs totalled 6,213'. 1961-64: further dd. 1970-71: airborne geoph, dd, mapping, trenching, EM survey.	ind: 162,787 at 1.73% Cu 1970 (D A MacDonald 20/12/70 for Master Mtls Corp (Mng) L)	Probably part of the 4 claim groups that Cdn Reserve is holding ready for production pending higher Cu prices.
ONT-124	MILGATE (ABBICAN) Can Reserve Oil & Gas L 41 J/6 46°29'05" 83°08'50"	Qtz-cp veins cut Gowganda Fm sediments. Some Au and Ag values obtained. 'A' zone is 600' l x 10' w to 235' d.	1955-56: surface work, bulk sample, 25 ddhs totalled 6,000'. 1965-66: geoph and geochem surveys, dd. 1970: airborne EM, mag and rad surveys.	ind: 105,750 at 1.08% Cu 1957 (R M Williams 26/05/66 in Prospectus, Milgate ML, 27/05/66 (3rd amendment))	Property thought to be part of claims Cdn Reserve Oil & Gas is holding 'ready for production' pending a rise in Cu prices.
ONT-125	PRINCIPLE STRATEGIC MINERALS Midpines Expls Inc (in 1977) 41 J/6 46°17'40" 83°12'35"	Qtz-cp vein in diabase cutting Gowganda Fm sediments.	prior 1957: 3 shallow pits. 1957: 12 ddhs totalled 2,607'.	ind: 86,386 at 2.26% Cu in Vein No 1 plus 770' x 6' at 1.44% Cu in Vein No 2 1957 (M L Halstead 07/09/57 in Prospectus, Principle Strategic Mnrls L, 25/09/57)	No work has been reported since 1957. Midpines acquired the claims in 1977.
ONT-126	SHEBA Sheba ML (in 1972) 41 J/6 46°29'15" 83°09'00"	Qtz-cp vein in Gowganda qtzite. Also some uranium in conglomerate.	1956-57: mapping, 9 ddhs. 1958-59: scint survey, stripping, trenching, 1 incomplete ddh. 1970: 1 ddh to 5,941'.	1,000' x 3' at 0.59% Cu 1957 (Ont MRC 12, p 98, 1969)	Originally explored for copper. 1959 drilling not completed due to drastic drop in demand for uranium.
ONT-127	WHARNCLIFFE Roaring River ML (in 1959) 41 J/6 46°24'50" 83°27'20"	Qtz-cp vein cuts Gowganda greywacke and qtzites. Cp distribution is irregular.	1957-59: EM and mag, 9 ddhs.	1,050' x 1.5-3.0' at 0.06-1.40% Cu 1959 (Ont MRC 12, p 70, 1969)	Most assays were less than 1% Cu.
ONT-128	ABETA Ateba Ms Inc 41 J/7 46°22'45" 82°33'30"	Radioactive oligomictic conglomerate of the Mississagi Fm forms part of the Paradee uranium bearing zone.	1953-54: dd. 1977: dd.	dd-ind: 12,992,000 at 0.75 lbs/t U_3O_8 1977 (CMH 1978-79, p 18)	Long Mac Mnrl Expl dropped its option in 1978. No work planned for 1983 by Ateba.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-129	BANANA LAKE Scurry Rainbow Oil L (in 1978) 41 J/7 46°27'12" 82°41'35"	A uraniferous zone in sediments along the Quirke syncline is thought to be 15,000' x 4,000' x 36'. Diabase intrudes the sedimentary rocks.	1955-56: shallow dd. 1966-75: dd. 1977: feasibility studies.	pot: 180,000,000 at 0.7 lbs/t U_3O_8 1968 (Canuc ML, 1975 AR)	Feasibility studies of in situ leaching and acid treatment of ore were undertaken in 1977.
ONT-130	CAN-MET Denison ML 41 J/7 46°28'51" 82°32'54"	Brannerite, monazite and uraninite occur in 2 beds of qtz pebble conglomerate having an avg thickness of 17' at depths of 1,500-2,000'.	1953: property acquisition. 1954-56: 2 shafts, u/g dev, surface and u/g dd. 1957-60: mng and milling of 1,996,856 tons yielding 3,699,801 lbs U_3O_8. 1979: rehabilitation begun.	N/A U_3O_8	Stripping and enlargement of Can-Met No 1 shaft was begun in 1979 as part of joint rehabilitation with Stanrock to be completed by 1985.
ONT-131	CANUC Canuc Res Inc 41 J/7 46°28'41" 82°36'55"	Uranium mineralization occurs in 7 conglomerate beds within Elliot Lake Group qtzites, on the SW edge of the Quirke uraniferous zone.	1959: dd. 1970: dd. 1976: feasibility studies on Blk 5.	dd-ind: 7,000,000 at 1.86 lbs/t U_3O_8 1970 (CMH 1975-76, p 62)	Further dd programmes planned but financing difficult (1979).
ONT-132	CONECHO Rio Algom L 41 J/7 46°29'13" 82°31'13"	Uraniferous conglomerate beds of the Mississagi Fm rest on granitic basement and are cut by a Nipissing diabase sill.	1953: prospecting and rad survey. 1954-55: dd.	dd-ind: c 2,000,000 at 1.4 lbs/t U_3O_8 across 6' 1956 (Conecho ML, 1956 AR)	Property is 9 mi NE of Elliot Lake near Conecho Point on Quirke Lake. No recent work.
ONT-133	GENEX R MacGregor (in 1976) 41 J/7 46°22'31" 82°36'00"	Uraniferous conglomerate within Mississagi Fm qtzite.	1954: dd. 1981: rad and geol survey.	ind: 10,000-11,000 U_3O_8, grade unstated 1958 (Ont GR 57, p 131, 1968)	Tonnage is apparently limited.
ONT-134	LACNOR Rio Algom L 41 J/7 46°23'44" 82°36'31"	Uraniferous qtz pebble conglomerate at a vertical depth of 2,200' host 2 ore beds. Brannerite and uraninite are main ore mnrls.	1954-56: dd, u/g dev in 2 shafts. 1957-60: u/g dd, crosscutting, drifting and raising on 16 levels, 2,360,239 tons of ore mined. 1964: mine waters bled off to Milliken mine. 1980: studies.	proven: 551,623 at 0.106% U_3O_8 plus prob: 1,027,119 at 0.105% U_3O_8 and dd-ind: 5,202,054 at 0.111% U_3O_8 1959 (Ont AR 1959, pt 2, p 120)	Resource figures prior to 1960 production. Lacnor will probably be reactivated and mined from Milliken in next decade.
ONT-135	MILLAQUA Rio Algom L 41 J/7 46°23'15" 82°30'56"	Part of Pardee uranium bearing zone in lower Mississagi arkose and qtz pebble conglomerate.	1954-56: extensive dd, adit, bulk sampling.	prob: 5,390,000 at 0.07% U_3O_8 1955 (FP Surv Ms 1956, p 194)	No recent work. Should be considered in a regional context with adjacent deposits.
ONT-136	MILLIKEN Rio Algom L 41 J/7 46°24'08" 82°37'31"	Upper qtz pebble conglomerate ore bed 7' thick separated by 5' of qtzite from 12' thick lower ore bed. Located on the S limb of the Quirke Lake trough, the extent of the orebody undetermined.	1954-57: u/g dev in 2 shafts, u/g dd, mill erection. 1958-64: conventional mng and milling yielded 14,204,530 lbs U_3O_8. 1965: experimental mine water leaching yielded 80,000 lbs U_3O_8. 1976: mine being dewatered and shafts widened. 1980: studies.	proven & assured: 383,000 at 2.08 lbs/t U_3O_8, prob: 907,000 at 2.01 lbs/t U_3O_8 and poss: 9,920,000 at 2.16 lbs/t U_3O_8 1966 (W F James et al 16/03/66 in Prospectus, Rio Algom ML, 1966)	Substantial uranium ore remains adjacent to existing workings. Most probably the mine will be reactivated within 10 years (1979).

ONT-137	NORDIC Rio Algom L 41 J/7 46°22'48" 82°35'20"	The ore bearing basal conglomerate is 9.5' thick and rests unconformably on basement at its western limit. The effluent solutions contain 0.13 gms/l thorium and 0.10 gms rare earths.	1953-54: discovery, dd. 1955-68: u/g dev in 2 shafts, conventional mng, 30,676,783 lbs U_3O_8 recovered. 1969-70: u/g water leaching. 1980: studies.	proven: 831,000 at 2.19 lbs/t U_3O_8; prob: 2,200,000 at 2.07 lbs/t U_3O_8, and poss: 10,108,000 at 2.13 lbs/t U_3O_8 1966 (Ont GR 57, p 123, 1968)	Mine and mill put on care and maintenance basis in 1970. Reserves in developed levels were depleted in 1968. A good chance of being reopened before 1989.
ONT-138	ROCHE Denison ML 41 J/7 46°28'36" 82°31'28"	Radioactive uranium-thorium qtz pebble conglomerate intersected in drilling of Espanola and Serpent Fms on the N limb of the Quirke syncline.	1953-55: discovery, dd. 1957: dd. 1966-67: dd.	(i) Northwest corner: 750,000 dd-ind at 1.35 lbs/t U_3O_8. (ii) Eastern part: 4,250,000 dd-ind at 1 lb/t U_3O_8 1967 (NM 16/05/68)	
ONT-139	SILVERMAQUE Silvermaque Mng L leased to Long Lac Mnrl Expl L 1977 41 J/7 46°24'40" 82°39'20"	Uraniferous conglomerate of the Mississagi Fm intruded by Nipissing diabase hosts the deposit.	1953-60: dd. 1965-67: dd. 1976-77: dd.	ind: 12,936,000 containing 10,753,000 lbs U_3O_8 1976 (NM 22/09/77)	3,563,000 lbs U_3O_8 recoverable economically from 3,096,000 tons through adjoining Stanleigh workings (1976)
ONT-140	SPANISH AMERICAN Rio Algom L 41 J/7 46°28'37" 82°35'15"	Brannerite and monazite are the ore mnrls in a qtz pebble conglomerate within the Matinenda Fm. Repetition of ore bed due to Quirke thrust.	1953-59: dd, u/g dev in 2 shafts, crosscutting, drifting, concreting 2,000 tpd mill. 1958-59: prod 205,000 tons ore.	dd-ind: 5,735,000 at 1.94 lbs/t U_3O_8; proven: 243,933 at 1.99 lbs/t U_3O_8; and prob: 120,140 at 1.99 lbs/t U_3O_8 (10% dil) 1958 (Ont AR 1958, pt 2, p 126)	Resources prior to subsequent production. Mine closed due to difficult water and ground conditions.
ONT-141	STANLEIGH MINE Rio Algom L 41 J/7 46°24'11" 82°38'25"	Two beds of uraniferous digomitic conglomerates at the base of the Matinenda fm are shallow dipping, separated by 5-22' thick qtzite beds. Ore mnrls are uraninite, brannerite, monazite and others. Only lower bed was mined to date.	1954-57: mapping, dd, u/g dev in shafts on 13 levels, 3,000 tpd mill erected. 1958-60: 4,889,744 lbs U_3O_8 mined. 1967-69: deep dd. 1974: re-examination. 1978: rehabilitation of mine started.	72,000,000 lbs U conc (Preston ML, 1978 AR)	This amount, approx. equal to the content of Stanleigh's reserves, has been contracted by Ont Hydro for delivery between 1984 and 2020.
ONT-142	STANROCK Denison ML 41 J/7 46°28'19" 82°33'41"	Monazite, uraninite, thorite, coffinite and brannerite associated with py in qtz pebble conglomerate form the ore. Duplication of the orebody due to structural displacement.	1955-57: dd, u/g dev in 2 shafts, drifting, crosscutting. 1958-64: conventional mng and milling prod of 11,890,248 lbs U_3O_8. 1965-70: prod by bacterial leaching of mine waters. 1973-78: feasibility surveys, detailed engineering studies. 1979: mine rehabilitation. 1980: dewatering. 1981: prod hoist installed, No 3 shaft.	assured & prob: c 10,000,000 at 0.07% U_3O_8 plus large additional possible reserves 1968 (FP Surv Ms 1971, p 151)	Rehabilitation and expansion of the Stanrock Mine should be completed by 1985.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-143	TWIN LAKES Esten Expls Inc (in 1980) 41 J/7 46°18'58" 82°37'20"	Cp-py-qtz as stringers and disseminations in shear zones and mafic rocks within granites.	1956: 29 ddhs totalled 9,777'. 1974-75: mag and EM surveys, dd.	prob: 76,900 at 1.73% Cu over 8.04' 1956 (Ont MRC 2, p 91, 1957)	More intensive drilling is needed to determine an accurate resource figure.
ONT-144	RUM POINT, WHISKEY LAKE Questmont ML (in 1979) 41 J/8 46°24'00" 82°20'50"	Radioactive pyritic conglomerate intersected in drilling.	1953-55: dd. 1977-78: prospecting, scint survey, trenching and blasting, dd.	400' x 17' at 0.66 lbs/t U_3O_8 1977 (NM 24/11/77)	Surface showing. Optioned in 1978 to Teck Corp.
ONT-145	BI-ORE MINE Cons Bi-Ore ML (in 1965) 41 J/10 46°37'50" 82°47'56"	Fissure filling qtz-carbonate veins containing cp, specularite, bornite and chalcocite cut Proterozoic cherty qtzite.	1929-32: 1,368' adit and 1,040' adit, stripping, dd. 1943-50: 2,200' dd, 1,200' trenching, 400 tpd mill, u/g crosscutting and stoping, mill burnt, more dd. 1956: Mace smelter erected.	400,000 at 4% Cu 1950 (CMH 1950, p 30)	The mine was not brought back into production after fire destroyed the mill in 1949.
ONT-146	BRUCE-PRESTO Bruce Presto ML (in 1967) 41 J/10 46°34'50" 82°57'20"	Cp and cobalt arsenides in shear zone in Post-Huronian gabbro.	1952: trenched, dd. 1963: IP survey, 6 ddhs.	500' x 9-25' at 2-3% Cu, trace to 2% Co 1963 (Ont MRC 12, p 91, 1969)	
ONT-147	SAMREID LAKE Talvey Mtl ML (in 1964) 41 J/10 46°33'30" 82°46'00"	Massive sulphides, py, po and cp, in basic Keewatin igneous rocks. Also scattered sulphide bearing qtz veins with associated py, po, cp, gal and sph.	1936: trenching. 1954-55: dd, mag survey. 1957: additional dd.	ind: 502,607 at 38.27% Fe, 32.5% S, across 13.47' 1957 (M C Halstead 31/07/59 in Prospectus, Talvey Mtl ML, 25/09/59)	Tonnage calculated to 450' depth and did not incl other parallel bands.
ONT-148	WHITE RIVER LEAD Sudbury Basin ML (in 1942) 41 J/10 46°34'05" 82°59'35"	Qtz veins containing po, gal, cp within diabase.	1927-28: surface work, adit. 175' long, 354' of crosscutting.	25,000 at 15% Pb 1928 (Mining Chronicle 13/10/28)	Resource estimate from surface work. A shoot 80' x 7' at 7.6% Pb, 1% Cu, 2.3 oz/t Ag was outlined in u/g examination.
ONT-149	CHENEY MINE Resource Expl & Dev CL (in 1980) 41 J/11 46°30'08" 83°23'45"	Cp, py, barite, calcite, siderite, ankerite and hematite in qtz veins cutting Gowganda Fm sediments and diabase.	1916: trenches, pits, 70' incline shaft, drifting on 50' level. 1928: shaft deepened, u/g dev, 7 ddhs totalled 2,514'. 1955-56: 8 ddhs totalled 4,723'. 1960: mag and EM surveys. 1966-67: 25' headframe erected, mine rehabilitated, some ore shipped.	ind: 39,405 at 3.97% Cu 1956 (D A Duff 23/11/59 in Prospectus, Rothsay ML, 04/12/59)	The resource figure was given before minor production of 3,500 tons (Cu grade not given) in 1966-67.

ONT-150	COPPER PRINCE MINE Copper Prince Res Inc 41 J/11 46°30'41" 83°02'21"	Py, cp, chalcocite and specularite in qtz veins within chloritic shear zone cutting Gowganda Fm arkose.	1928-29: staked, 30 ddhs. 1947: geol mapping. 1951-52: trench samples, dd. 1972-73: 240' decline, mng of 1,088 tons grading 2.07% Cu in December 1972, ore trucked to Crownbridge mill.	ind: 50,000 at 3% Cu 1972 (New Calumet ML, 1973 AR)	Without sufficient feed for the mill, mining operations were stopped.
ONT-151	JARDUN MINE Jardun ML (in 1964) 41 K/9 46°38'35" 84°08'20"	Replacements or fissure fillings in shear zones within granite and diabase.	1875-85: 2 small producers operated, 900 tons milled from one. 1951-57: 2 shafts sunk to 415' and 374', 130,536 tons milled, 3,850' of drifting and 1,326' of crosscutting.	49,367 at 4.4% Pb, 3.1% Zn, 1.42 oz/t Ag 1957 (NM 26/02/76)	
ONT-152	GOULAIS RIVER Great Northern Fin Corp leased to Prace Mng L 41 K/16 46°45'52" 84°15'22"	Cu mineralization in carbonatized flow tops underlying graphite schist. High grade Pb and Ag in drill intersections.	1900: shaft. prior 1970: some trenching. 1972-73: geol and geoph surveys, 33 ddhs totalled 12,294'. 1979: 400' decline, dev. 1980: EM survey. 1981: 112 t conc prod.	ind: 250,000 at 2.35% Cu, 0.26 oz/t Ag in 3 zones 1973 (NM 14/06/73)	Drilling of a similar structure 1,000' N revealed high grade lead and silver. Limited amount of Pb-Zn conc produced 1975, 1981. Prace went bankrupt in 1982.
ONT-153	KRISTINA MINE Ventures Claims L (in 1972) 41 K/16 46°53'10" 84°05'25"	Cp, minor py and gal in qtz veins in contact zone bt hornblende granite and diorite.	1901-07: 6 shafts with u/g dev, small shipment 1903 from No 6 shaft. 1941-44: dd. 1952-57: geol survey, dd, No 6 shaft dewatered and sampled, geoph survey.	prob-poss: 369,350 at 1.95% Cu in Nos 4 and 6 shaft zones 1957 (Ont MRC 12, p 75, 1969)	The mine closed in 1907 due to low copper prices and poor milling methods.
ONT-154	COPPERCORP MINE Coppercorp L 41 N/2 47°01'13" 84°45'09"	Chalcocite, bornite, cp, specularite and rarely native Cu as stringers or blebs in qtz-carbonate veins as fissure fillings within basalts and conglomerates.	pre-1800's: mng of native Cu. 1856-57, 1884: trenching, u/g dev. 1949-57: surface work, extensive dd, u/g dev on 3 levels, shaft reached 550'. 1964-72: mng operations, surface and u/g dd, Cu-Au-Ag recovered from 1,129,247 tons milled. 1974: small o/p prepared, then project cancelled.	N/A Cu	North Cdn Enterprises L holds lease on property until 1984. Efforts to resume production in 1974 were arrested by loss of export permit.
ONT-155	GIMLET LAKE Gui-Por U Ms & Mtls L (in 1967) 41 N/2 47°01'50" 84°38'15"	Disseminated cp along edge of gabbroic sill, in a qtz porphyry, and in qtz-carbonate seams in volcanics.	1955: surface work, geoph survey, dd. 1964-65: mapping and dd.	2,000' x 15' at 0.5% Cu 1957 (W R Newman 26/03/64 in Prospectus, Gui-Por U Ms & Mtls L, 30/04/64)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-156	GLENROCK Rockdale ML (in 1954) 41 N/2 47°00'30" 84°34'58"	Cobaltite, py, cp, Au and Ag in carbonate veins cutting mafic volcanics.	1951-53: discovery, trenching, sampling, 11 ddhs totalling 2,365.8'.	250' x 3.5' at $22/t Co-Au 1953 (FP Surv Ms 1954, p 225)	Drilling failed to prove ore continuous at depth.
ONT-157	JOGRAN (BJORNAS-DALE) Jogran ML (in 1968) 41 N/2 47°02'35" 84°36'55"	Cp and mo disseminated throughout feldspar porphyry and also in narrow qtz veins and fractures cutting the porphyry.	1953: airborne mag, exploring for Fe fm. 1963-66: mag, EM, 5,721' in 10 ddhs.	600' x 400' at 0.053% MoS_2, 0.19% Cu 1966 (NM 09/06/66)	The minimum depth is 680'.
ONT-158	MARICONA Colex Expls Inc (in 1978) 41 N/2 47°08'38" 84°43'38"	Chalcocite, cp, bornite and native Cu in fissure filling vein breccias in basalt. The ore zone measured 1,098' x 8.1' x 345' deep.	1863-65: expl adit and 2 shafts. 1949-54: geol and geiger counter surveys. 1955-56: extensive dd, surface samples, EM survey. 1962-64: further dd. 1972-75: mag and geochem surveys, dd.	ind: 295,405 at 1.17% Cu 1956 (Ont MRC 12, p 58, 1969)	This resource figure is distributed in 3 sections of 240', 458' and 400' lengths.
ONT-159	PANCAKE LAKE Continental McKinney ML (in 1967) 41 N/2 47°03'40" 84°37'50"	Qtz-cp-py veins in fault zone cutting metavolcanics. The mineralized zone appears to be 1,600' x 21.5' of 1-6" qtz stringers.	1953: airborne mag survey. 1956: trenching. 1958-67: SP and EM surveys, 1,712' dd in 5 ddhs, expl.	pot: 600 T/VF at 0.76% Cu to 200' 1964 (A W Jeckell 16/11/64 in Prospectus, McKinney GML, 19/12/64)	Surface exploration in 1966-67 was not encouraging and the claims lapsed.
ONT-160	TRIBAG Coastoro Res L 41 N/2 47°05'09" 84°30'35"	Cp, mo, sph and gal mineralization in 5 breccia bodies from large low to medium grade deposits.	1954-56: dd. 1960-66: photo-geol study, geol mapping, geoph surveying, dd, shaft sunk, u/g dev. 1967-75: mill erected, further mapping, geochem and geoph surveys, prod. 1980: 150 m decline, dd.	(i) East Breccia: 125,000,000 at 0.13% Cu, 0.03-0.05% MoS_2, recoverable Ag (ii) Breton Breccia: 40,000,000 at 0.2% Cu above 1,000'. 1974 (CIM Bull, Aug 1974, p 72, 74)	East Breccia has never been mined. Between October 1967-1973, 36,297,186 lbs Cu plus Ag were recovered from other zones. 100,000 t at .6-1.0% W + 1,000,000 t at 0.23% WO_3 in tailings (NM 23/12/82)
ONT-161	COUTU Coutu GML (in 1972) 41 N/10 47°38'28" 84°46'22"	Qtz veins containing Au, in fault zone cutting qtz monzonite and gabbro.	1955-61: pitting, dd.	200' x 0.5-7' at 0.5-1 oz/t Au 1961 (Ont GR 69, p 66-7, 1969)	
ONT-162	RENNER Teck Mng Group L (in 1972) 41 N/10 47°36'00" 84°46'54"	Gamitagama Lake Complex of pyroxene gabbro and diorite contain po, py, pn, bravoite and cp mineralization within contact zones adjacent to hornfelsed mafic volcanics.	1954-56: staked, trenched; mag, EM and geol surveys; 16 ddhs. 1960: regional geol and EM surveys, detailed resistivity, SP, mag and topo surveys. 1965-66: 4,265' in 14 ddhs.	dd-ind: 2,888,000 at 0.29% Ni, 0.26% Cu c 1966 (Ont MRC 12, p 83, 1969)	The high grade portion of the resource figure comprised 161,400 at 1.08% Ni and 0.71% Cu.

ONT-163	PARKHILL MINE Dunraine ML 41 N/15 47°57'48" 84°44'24"	Gold-bearing qtz veins within qtz stock porphyry and volcanics.	1900-03: 208' shaft. 1929-44: new 1,912' shaft with 14 L's intermittent prod of Au and Ag, 125,778 milled with recovered grade of 0.43 oz/t Au. 1980: dd. 1981: dd, dewater to a L, u/g sampling, bulk sampling tailings. 1982: dewater to bottom L, u/g dd, bulk sampling.	20,000 at 0.4 oz/t Au (cut) above 3rd L pre-1980 (NM 18&25/09/80) and 60-80,000 tailings at unstated Au grade 1980 (NM 11/09/80) plus 200-250,000 t tailings at 0.056 oz/t Au (Dunraine ML Inter Rept Sept 30/81)	
ONT-164	S B SMITH (VAN SICKLE) MINE Dunraine ML 41 N/15 47°57'50" 84°44'18"	Gold-bearing qtz vein within a qtz stock porphyry and volcanics.	1934-36: shaft sinking, 2 levels established, 9,228 tons milled. 1982: mapping.	10,000 at $16/t Au "ore available for milling" 1936 (Globe and Mail 21/08/36)	Previous estimate of gold-bearing material remaining in both Parkhill and Van Sickle mines was 91,000 tons at unstated grade (NM 05/02/81).
ONT-165	STENABAUGH Milmac ML (in 1939) 41 N/15 47°55'40" 84°46'30"	Gold-bearing qtz veins within volcanics.	1927-34: trenching, pitting, stripping, sampling.	80' x 3.5' at $30.72/t Au 1927 (Ont AR 1927, Pt 2, p 46)	Au at $20.67/oz.
ONT-166	SURLUGA Pango GML & Citadel GM Inc 41 N/15 47°59'20" 84°45'00"	Gold-bearing qtz stringers and lenses in a shear zone in Algoman qtz diorite and granodiorite. Gold in 3 types of zones: qtz-tourmaline, qtz-py and arsenical-py.	1895-98: stripping, trenching, pitting. 1934-37: 2 small shafts. 1960-70: u/g dev, milling in 1968-69 of 29,504 tons of ore with Au-Ag recovery, dd. 1974-75: dewatered workings, dd, feasibility study. 1982: mag and rad survey.	proven: 755,000 at 0.148 oz/t Au cut and diluted; pot: 870,000 at 0.13 oz/t Au plus 27,000 at 0.12 oz/t Au in surface stockpile 1975 (NM 31/01/80)	1975 feasibility study indicated deposit was economic with the then prevailing gold price. Financing being sought for mill rehabilitation.
ONT-167	JEROME MINE E B Eddy Forest Prods L 41 O/9 47°37'10" 82°14'30"	Cherty qtz veins at or near sediment-porphyry contact.	1938-45: discovery, dd, shaft sunk to 1,138', u/g dev on 6 levels, milling of 335,060 tons Au-Ag ore in 1941-43. 1981: new headframe, dewatered to first L, sampling, 2,700' dd.	ind: 344,000 at 0.19 oz/t Au allowing 10% dilution 1945 (CMH 1946, p 159)	Resource figure calculated at the time work ceased in 1945, confirmed in 1981. Bridgeview Res Inc optioned the property in 1980 with plans to dewater shaft and property could be prod in summer 1983. (pers commun., P. Brown, 14/02/83)

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-168	SHUNSBY (ALDRA) MW Res L 41 O/10 47°42'48" 82°39'30"	Cp, py, po and sph as fracture fillings in brecciated chert bands interbedded with lavas. Basal and Middle Chert separated by 150' spherulitic andesite.	1904-07: prospecting for iron. 1928-29: stripping, trenching, dd. 1954-61: mag, EM and geol surveys, stripping, trenching, 23,941' in 83 ddhs. 1964-65: 14,000' dd. 1968-75: dd, geochem surveys. 1980: dd. 1981: dd. 1982: dd N zone.	(i) North zone: 80,000 prov at 3.9% Cu, 6.2% Zn, 0.03 oz/t Au, 1.20 oz/t Ag (ii) South zone: 1,000,000 dd-ind at 1.5% Cu, 5.0% Zn 1981 (NM 29/10/81)	Optioned in 1980 by Placer Dev L, was dropped in 1981. MW plans to mine prov areas.
ONT-169	FALCONBRIDGE Falconbridge Nickel ML (in 1968) 41 O/14 47°46'57" 83°04'53"	Local section 2,200' in diameter of massive, brecciated, disseminated or stringer magnetite-apatite pods in Lackner alkaline complex.	1951-57: aeromag, geol and ground mag surveys, 8 ddhs. 1959: mag survey, 11 ddhs. 1963: 3 ddhs.	(i) Zone 1: 2,000,000 dd-ind at 18.9% Fe (sol) and 3.7% P (ii) Zone 2: 500,000 dd-ind at 22.32% Fe (sol) and 2.89% P 1963 (Ont MP 67, p 74, 1976)	This property is close to Multi-Minerals columbium deposit.
ONT-170	MULTI-MINERALS Multi-Mnrls L 41 O/14 47°47'12" 83°07'42"	Mag-apatite-pyrochlore as separate clusters, in fine disseminations or as euhedral grains in nepheline stringers within the Lackner alkaline complex.	1949-59: dd, mag and geol surveys. 1965-71: recovery studies. 1973-74: crushing and magnetic separation plant erected, ore broken in No 6 o/p, small shipment.	(i) No 6: 5,024,250 ind at 69.6% Fe_3O_4, 21.88% Phs, 0.173% Cb_2O_5 to 500' depth (ii) No 3-4: 37,000,000 ind at 13.7% Fe_3O_4, 21.3% Phs, 0.198% Cb_2O_5 to 1,200' depth (iii) No 8: 80,000,000 inf at 0.25% Cb_2O_5 to 800' depth (iv) No 6 Fracture: 1,200,000 inf at 0.28% Cb_2O_5 1959 (H A Pearson 25/03/74 in Multi-Mnrls L, 1973 AR)	The property was leased in 1974 but lease was terminated after 1 yr although feasibility report indicated a viable operation through to pig iron production.
ONT-171	BELCHER (HALCROW SWAYZE) Rubino Downey Realty Inc (in 1975) 41 O/15 47°47'53" 82°56'27"	Mineralized shear zone up to 200' wide in sediments adjacent to a qtz diorite dyke.	1932-37: stripping, trenching, dd, shaft to 371', u/g dev on 3 levels, mill erected, small prod of 38.7 oz Au, 15 oz Ag in 1935.	ind: 1,100,000 at $1.67/t Au, o/p mineable to 500' depth 1935 (Halcrow Swayze ML 31/01/35, letter to shareholders)	Subsequently, an estimate of 125,000 tons at $4 (.114 oz) Au/t was reported above 350' level.
ONT-172	KENTY MINE Heron Res L 41 O/15 47°50'16" 82°36'38"	Auriferous qtz veins containing py, cp, gal, sph and mo occur in lavas, sediments and intrusive rocks.	1931-36: 2 shafts sunk 510' and 534', 5-ton test mill operated for 3 months. 1946-50: dewatered, u/g and surface work, 100-ton mill erected but no record of any material milled.	(i) No 1 shaft: 69,000 Au, grade unstated. (ii) No 2 shaft: 290,000 Au, grade unstated 1947 (FP Surv Hs 1951, p 147)	Recorded gold production was valued at $42 pre-1936.

ONT-173	JOBURKE Domego Res L (in 1980) 41 O/16 47°48' 82°22'	Auriferous qtz veins in granite.	1946-47: surface work, dd, geoph survey. 1979: clean up of trenches, selected sampling, dd. 1980: dd.	(i) Marion tp: 350' x 21' dd-ind at $5.85/t Au (FP Surv Ms 1947, p 137) (ii) Heenan tp: 70' x 6.4' at $7.44/t Au 1946 (FP Surv Ms 1947, p 133)	The company feels that a fairly large tonnage of gold mineralization with o/p potential exists on the Marion tp property. 1980 dd not encouraging.
ONT-174	OROFINO Orofino Res L O/16 47°56'35" 82°24'30"	Gold in qtz stringers and qtz-calcite veins cutting metagabbro in section 12.7' wide with py another section is 6' qtz calcite veins.	1933-36: dd, panning. 1945-51: dd, shaft to 306', u/g dev on 2 levels. 1962-63: deeper dd. 1973-74: dd, revised ore est. 1979-80: rehabilitation of bldgs, geoph, dd, 34 ddh, 32,866' 1981: 38 ddh, 29,145', feasibility study.	896,000 at 0.21 oz/t Au 1980 (Northgate Expl L 08/10/80 press release) or 825,000 at 0.17 oz/t Au (NM 4/03/82)	Spring 1983 dd program planned.
ONT-175	RUNDLE Rundle GML 41 O/16 47°51'30" 82°20'53"	Mineralized qtz veins in porphyry and included volcanic remnants.	1940-41: discovery, trenching. dd, shaft to 375', u/g dd and dev, mine idle. 1982: stripping, tr.	ind: 500 T/VF at 0.29 oz/t Au on 150' level 1941 (Hollinger Cons GML, 1941 AR)	100,000 at 0.29 oz/t Au, Ont (OGS, MDC 18, p 78, 1979). Sulpetro Mnrls L optioned from Hollinger Argus L in 1981 .
ONT-176	RUNDLE NO 2 (MIQUELON) Rundle GML (in 1975) 41 O/16 47°54'36" 82°23'24"	Auriferous qtz veins in lavas.	1945: trenching, dd.	350' x 4' at 0.3 oz/t Au 1945 (Ont OFR 5156, p 290, 1975)	Surface showing unconfirmed.
ONT-177	STACKPOOL (JEFFERSON) Excelsior ML (in 1975) 41 O/16 47°49'45" 82°14'00"	Archean iron fm consisting of py, siderite, mag, po and silicate mnrls. A small qtz-sph-gal vein cuts the iron fm at a low angle.	1908-29: stripping, test pitting, dd. 1950-52: mag, 23 ddhs totalling 6,300'. 1957-63: EM, 28,983' of dd. 1972: airborne mag.	dd-ind: 51,580,000 at 34% Fe, 13.9% S, 0.5% Mn 1961 (Hargraft 03/07/51 in Prospectus, Central Sudbury Lead-Zinc ML, 05/06/51) plus 49,500 at 4.02% Zn, 2.05% Pb 1951 (CMH 1963, p 112)	The iron besides being low grade is in thin discontinuous bands.
ONT-178	DELHI PACIFIC Delhi Pacific Res L 41 P/1 47°08'30" 80°21'30"	Ag-bearing gal, py, cp and erratic Au occur in vuggy qtz-carbonate veins mainly within Nipissing diabase and occasionally within greywacke.	1907: 2 adits and shallow shaft. 1946-47: dd. 1949-52: geol, dd, tunnelling, bulk sampling, surface and u/g expl, res est. 1956: surface work, dd, u/g dev.	54,000 at $20.25/t Pb-Ag-Au to 200' below adit 1951 (Ont AR 1953, pt 4, p 18)	Recoverable net value based on Pb at $0.11/lb, $0.90/oz Ag and $35.00/oz Au.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-179	ZINC LAKE Zenmac Expls L 41 P/3 47°09'20" 81°27'25"	Narrow bands of sph, gal, py, po, cp within greywacke. Main zone ranges from 2-18' and is at least 1.25 mi in length.	1912: trenches, shaft to 54'. 1927-28: surface work, dd. 1948-58: geoph, dd. 1979-80: dd.	550' x 6.2' at 5.02% Zn, 1.91% Pb 1952 (C A Campbell & L Chamberlain 10/04/53 in Prospectus, Zinc Lake ML, 13/04/53)	To 400' the tonnage was estimated at 140,000 tons. Riocanex has optioned the property. Option dropped in June 1981.
ONT-180	ETHEL Ethel Copper Ms L (in 1975) 41 P/9 47°44'52" 80°16'30"	Cp, bornite and specularite occur in calcite stringers cutting both diabase and sediments. Higher grade intersections found in the diabase.	1911: shaft on Ag vein. 1952: dd. 1960-63: inclined adit, dd, EM and IP surveys, u/g dev, 8,853 tons milled with Cu-Ag-Au recovery. 1966-67: 10,485 tons mined.	32,000 at 2.64% Cu above 150' 1966 (NM 08/12/66)	Subsequent to the resource estimate, salvage operations took place in 1966-67. Operations ceased due to difficulty in maintaining production.
ONT-181	HUDSON BAY MINE Devon Res L (in 1975) 41 P/10 47°30'48" 80°48'06"	Silver bearing veins typical of Cobalt area contain ore shoots near intersections of main and transverse veins within shear zone.	1908: discovery. 1910-13: 4 shafts, u/g dev, small prod. 1929: shafts dewatered, prod. 1935-37: shafts dewatered, u/g dev, prod by cobbing, stockpiling. 1960-68: dd, u/g dd, lateral dev, prod by cobbing, stockpiling. 1974-75: 80 tpd mill.	surf stockpile and u/g broken: 10,400 at 12.2 oz/t Ag 1968 (NM 18/02/68) plus inf: 200,000 at 30 oz/t Ag 1974 (FP Surv Ms 1978, p 147)	
ONT-182	MANN Manridge ML (in 1972) 41 P/10 47°37'20" 80°49'06"	Silver bearing calcite veins related to Nipissing diabase dyke.	1908-14: discovery, trenching, 5 shafts sunk, u/g dev, drifting and crosscutting, prod. 1952: dewatering shaft, dd, tailings treated at O'Brien. 1967-70: dd, mine rehabilitation, u/g dev, prod of 174,412 oz Ag bt 1969-70.	ind: 19,000 at 35 oz/t Ag to 200' depth 1968 (Ont MRC 10, p 394, 1968)	Subsequent to resource estimate, about 4,000 tons of ore were mined.
ONT-183	MINTO Dalhousie Oil CL 41 P/10 47°38'40" 80°59'58"	Qtz, carbonate, py in minute fractures in Archean rhyolite, volcanic breccia and tuff.	1930-31: trenching, dd. 1939-40: shaft to 20', dd, work suspended.	dd-ind: 75,000 at 0.207 oz/t Au 1940 (CMH 1940, p 137)	No recent work has been reported.
ONT-184	BILMAC Bilmac GML (in 1971) 41 P/11 47°36'00" 81°10'56"	Two parallel qtz veins in Archean sheared, pillowed, and amygdaloidal lava as well as intrusive porphyries.	1911-40: adit, 3 shafts to 87', 40' and 425', 12 tons shipped in 1933 yielded 8.45 ozs Au.	250,000 at $12.00/t Au 1938 (Ont GR 152, p 37, 1977)	Au at $35.17/oz. An 80 ton mill was built in 1938 but never used.
ONT-185	RIBBLE Triton Expls L (in 1975) 41 P/11 47°36'11" 81°12'05"	Au, Ag, pyr, cp and sph in qtz and carbonate veins with Archean pillow lava.	1911-39: dev work incl 2 shafts, drifting, u/g and surface dd, prod.	50,000 at $8/t Au (c 0.228 oz/t Au) 1938 (NM 03/11/38)	Less subsequent recovery of 2,727 oz Au plus Ag from 24,592 tons milled in 1939.

ONT-186	TYRANITE Tyranite ML (in 1981) 41 P/11 47°40'00" 81°00'08"	Gold in 2 parallel carbonatized and pyritized shear zones in andesite near a peridotite contact.	1930-38: trenching, dd, shaft to 1,150' with 7 levels established. 1939-42: 223,810 tons milled.	N/A Au	Operations were stopped due to a wartime labour shortage. Preproduction resource estimates were 250,000 tons.
ONT-187	GROVES (EVECO) Nickel Rim ML (in 1974) 41 P/12 47°37'40" 81°37'30"	Po, pn, cp and millerite in 500' 1 x 28' w zone on sheared footwall of a qtz diorite to gabbroic sill.	1953-56: mag and geol surveys, 18 ddhs. 1963: geoph survey, 12 ddhs. 1967: geochem and geoph surveys, 5 ddhs.	poss: 500,000 at 1.5-2% Ni-Cu 1956 (Ont SMOR 000855, 1973)	The property has been idle since 1967 and its present owner is unknown.
ONT-188	KINGBRIDGE Murgold Res Inc 41 P/12 47°33'30" 81°54'15"	Auriferous narrow qtz veins.	1933-37: dd, Gomak shaft to 85', u/g dev, Strathmore shaft to 125'. 1945-46: test pitting, dd. 1965: mag and EM surveys, dd. 1970-73: Ronka EM-16 and IP surveys, dd, bulk sampling, open cast mng. 1981: dd, new headframe, new zone, geochem, geoph. 1982: 12,776' dd, new shaft, 266 t bulk sample.	ind: 3' x 95' x 65' at 2.88 oz/t Au, best exposed section 1973 (NM 08/03/73)	Mining records N/A. Reason for halting production in 1973 were not given. Average grade for sample in 1982 reported at 0.70 to 0.969 oz/t.
ONT-189	YOUNG-SHANNON Young-Shannon GML 41 P/12 47°33'30" 81°55'45"	Visible gold in qtz vein 3' wide x 70' long x 250' deep.	1930-32: discovery, trenching. 1936-46: shaft, u/g dev, dd., 1973: dd. 1976-79: u/g dev, o/p mng. 1981: 2 ddh, 1,344'.	blocked out: 3,680 at 0.46 oz/t Au 1937 (Ont OFR 5156, p 140, 1975)	Cdn Crest GML obtained 50 yr lease in 1976. Test shipments in 1979.
ONT-190	MIDLOTHIAN United Asbestos Inc 41 P/14 47°52'55" 81°00'20"	U-shaped deposit of Archean asbestos-bearing peridotite intrudes Archean rhyolite. Asbestos is in the form of cross and slip fibres in stringers and veinlets.	1950-53: geoph and dd. 1970-74: dd, prep for o/p mng, 4,000 tpd mill erected. 1975-77: mine operation, considered tune-up, 600,000 tons milled, 10,800' dd. 1980-81: engineering and cost est for poss prod.	26,127,000 at 7.5% Asb to 400' plus 7,491,000 which needed further flow work plus 120,000,000 to 1,000' 1977 (FP Corp Serv, United Asbestos Inc, 06/02/79)	Various problems, including complying with environmental standards forced mine closure and company assets were sized by major creditor in 1977. United Asbestos reacquired control in 1979. Refurbishing of plant first priority. 1980. Pilot mill put in operation to process some of 5,000 t in dry storage.
ONT-191	SOTHMAN Sothman ML 41 P/14 47°50'55" 81°14'40"	Po, pn, violarite and cp occur as net textured material along embayments in the footwall of a concordant sill-like ultramafic body.	1950-53: aeromag survey and ground follow-up, 37 ddhs. 1956: geol mapping, dd. 1966: dd. 1981: geoph survey.	dd-ind: 210,000 at 1.29% Ni plus 400,000 at 0.90% Ni 1956 (Kirkland Mnrls Corp L, 1956 AR)	Falconbridge dropped its option in 1966 but set up Sothman in 1968 to acquire the property.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-192	STAIRS Regal Goldfields L 41 P/14 47°54'30" 81°04'	Shear zones contain gold bearing qtz veins within pebble conglomerate.	1944-47: mapping and trenching. 1962-66: dd, adit and shaft sunk, u/g dev incl drifting, crosscutting, raising and dd, prod. 1980: dd, geoph, geochem. 1981: sampling, dd.	proven, prob & poss: 140,900 at 0.45 oz/t Au, 1 oz/t Ag to 500' level 1965 (Mng in Can, v 38, No 8, p 14, August 1965)	Subsequent to the resource estimate, 15,835 tons were mined in 1965-66. In 1968 equipment was sold.
ONT-193	MATACHEWAN CONSOLIDATED Matachewan Cons ML 41 P/15 47°57.5' 80°40.5'	Qtz veins and stringers occur with Au, Ag, py, cp, Mo in volcanics and in porphyry.	1917: discovery. 1919: 2 shafts, 170' and 33'. 1933-34: dd, u/g work, mill erected. 1934-52: prod 370,427 oz Au, 133,710 oz Ag from 3,525,000 t milled. 1969-70: dd, claim staking. 1979-82: prod.	N/A	Pamour Porcupine leased the property in 1979 and ceased mining operations in spring 1982. To restart operations it is est that gold price needs to be $US 600/oz.
ONT-194	YOUNG-DAVIDSON Young-Davidson ML 41 P/15 47°56'50" 80°41'35"	Tapered cone shaped body of syenite porphyry hosts gold mineralization. Fine gold in fractures and is also associated with py disseminated in syenite.	1916: discovery. 1923-25: dd, 200' shaft. 1934-56: mng operations from o/p until 1939, then u/g on 7 levels; 585,690 oz Au and 131,939 oz Ag recovered from 6,128,272 tons milled. 1965, 74: dd, geol. 1978-79: records re-examined. 1980: dd, geoph, geochem. 1981: sampling, dd.	considerable tonnage in 0.10 to 0.11 oz/t Au range indicated 1957 (NM 13/03/80)	A 20 year sub-lease was granted to Pamour Porcupine ML in 1980.
ONT-195	RYAN LAKE Geo-Pax ML (in 1974) 41 P/15 47°58'24" 80°41'42"	Cp, py and po in shear zones cutting Archean peridotite, syenite and volcanics in Mine area. Cp and mo in qtz veins associated with syenite porphyry in North Porphyry area.	1947-48: dd and expl, mag and SP surveys. 1951-64: 175 tpd mill built, Cu-Au-Ag recovered from 184,790 tons milled in 1948-64, Mo recovered by treatment of tailings in 1962-64, metallurgical tests. 1966-67: geol mapping, dd by Cominco, option terminated in 1967.	(i) Mine area: 531,000 ind-poss at 1.0% Cu, 0.25% MoS_2 (NM Nov 1964) (ii) North Porphyry: 600,000 inf at 0.30% Cu, 0.35% MoS_2 1964 (CMH 1964, p 244)	The proven and estimated ore in the mine was given in 1964 as 110,000 tons at 2% Cu and 0.74% MoS_2. Operations were halted in 1963 due to a mill fire. Mining resumed in 1966-67 for a short time.
ONT-196	BALDWIN Baldwin Cons ML 42 A/1 48°05'56" 80°09'44"	System of auriferous qtz veins at contact of Timiskaming sediments and Keewatin volcanics.	1918-36: shaft to 420', u/g and surface dd, 81 tons milled.	ind: 5,040 at $22.30/t Au (cut) 1946 (G L Holbrooke 19/08/46 for Baldwin Cons ML)	All high values were cut plus final tonnage and grade cut by 40%.

ONT-197	GOODFISH (MURRAY) J J Gray Estate (in 1973) 42 A/1 48°12'08" 80°00'30"	Qtz-carbonate fracture zone containing Au lies in Keewatin volcanics near felsic intrusives.	1912-40: trenching, mapping, 5 shafts, No 1 shaft to 620', No 3 to 180'.	30,000 at $12/t Au 1938 (FP Surv Mn 1938-39, p 167)	Channel samples from one lens avg 0.379 oz/t Au over a length of 100' and a width of 24'.
ONT-198	HUDSON-RAND Cons Canorama Explo L (in 1977) 42 A/1 48°08'25" 80°01'40"	Gold bearing py and cp occur in qtz stringers in fracture zones in syenite porphyry.	1917-37: shaft to 800' and winze to 1,050', 100-ton mill, 6,496 tons milled. 1946-53: reopened mine, dd, expl from 6,575' horizon of adjacent Lake Shore ML property.	45,000 at $8/t Au with 15% dil 1947 (Ont AR 1948, Pt 5, p 44)	Cons Canorama Explo L charter cancelled 1980, revived 1981.
ONT-199	KIRANA KIRKLAND Haas-Warner Mng L (in 1975) 42 A/1 48°11'16" 80°01'08"	Basalt at the contact of qtz porphyry has been altered to silica, calcite and other carbonates. Gold is found in the alteration zone.	1916: shaft to 340', 1,000' drifting and crosscutting. 1936-37: dewatered shaft, 820' of crosscutting.	ind: 50,000 at 0.4 oz/t Au 1937 (Ont OFR 5156, p 610, 1975)	
ONT-200	LAKE SHORE Lake Shore ML 42 A/1 48°08'50" 80°02'50"	Auriferous qtz veins occur in fracture zones, mainly within Algoman syenite. The veins range from narrow qtz stringers to qtz stockworks and qtz breccia bodies up to 50' wide.	1911-17: discovery, shaft to 400'. 1918-65: 4 surface and internal shafts, 16,602,903 tons milled, working to 8,150'. 1965-67: clean-up operations, 299,500 tons of tailings milled. 1973-76: feasibility study on mill tailings and on resources above 4,000' level. 1980-81: evaluating tailings. 1982: feasibility study on crown pillar.	330,000 at 0.42 oz/t Au 1973 (NM 10/05/73) plus 3,302,460 at 0.072 oz/t Au in tailings 1967 (Lake Shore ML, 1967 AR) tailings 2,880,400 at 0.072 oz/t Au 1980 (CMH 1981-82, p 194)	Lac Mnrls L announced in 1983 that they will mine the crown pillar.
ONT-201	WRIGHT-HARGREAVES Wright-Hargreaves ML 42 A/1 48°09'05" 80°02'44"	Tailings dump.	1913-20: 2 shafts. 1921-65: 9,734,402 tons milled; from 1957-65 the ore was processed at Lake Shore's mill; workings extended to 8,100' below surface. 1981: feasibility study.	644,200 at 0.069 oz/t Au 1980 (CMH 1981-82, p 353)	Pilot test ind 70-75% recovery rate. In 1982 Long Lac Mnrl Explo L studying feasibility of re-treating tailings here and from Lake Shore mine.
ONT-202	ASHLEY G Sunisloe (in 1973) 42 A/2 48°00'50" 80°53'48"	Auriferous qtz veins cutting Keewatin basaltic flows.	1930-36: shaft to 570', winze to 750', 157,636 tons milled. 1937: small prod. 1946-47: dewatered workings, dd, discovery of new vein. 1973: trenching. 1980: decline shaft portal renovated. 1981: geol survey.	280' x 2.5' at 0.5 oz/t Au in new vein 1947 (NM 04/12/47)	The main vein, the Ashley, was 2,000' x 2.5' at 0.3-0.4 oz/t Au, before mng began. The vein was apparently mined out by 1936. Camart ML mined, hand cobbed and stockpiled ore in 1980. Petromet Res L did 1981 survey.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-203 TEXMONT New Texmont Expls L 42 A/3 48°09.7' 81°12.5'	A steeply-dipping, partially serpentinized lenticular body of peridotite contains nickel sulphide mineralization, in a zone up to 200' wide and at least 1,800' long. Sulphides incl py, po, pn with minor cp and violarite.	1951-60: prospecting, mapping, geoph, dd, 5 level shaft to 790', u/g work. 1965-66: dd. 1971-72: 196,816 tons milled, placed on standby.	(i) "A" zone: 730,000 proven at 0.96% Ni; 860,000 dd-ind at 0.96% Ni. (ii) South zone: 1,600,000 dd-ind at 0.89% Ni 1971 (O E Leigh, 15/10/71 for Texmont ML)	Both zones drilled to 1,600'.
ONT-204 AUMO Andex ML 42 A/5 48°21'30" 81°38'42"	Qtz-carbonate stringers containing py, cp, po with some Au and Ag are found within a shear zone in granite.	1911-28: trenching, shaft to 60' dd. 1945-46: 20,000' of dd in 60 holes. 1980: dd.	(i) No 2 Vein, dd-ind: No 1 zone: 700' x 2.5' at 0.12 oz/t Au, 2.0 oz/t Ag, 2.07% Cu to max 190' depth. plus No 2 zone: 460' x 2.5' at 0.20 oz/t Au to max 170'. (ii) No 5 Vein, ind by 3 ddh: 340' x 1.5' at 0.90 oz/t Au c 1946 (VSE SMF, Andex ML, 5/03/80)	Andex ML Optioned property in 1980.
ONT-205 MORDEY United Asbestos Inc (in 1973) 42 A/5 48°28'55" 81°33'35"	Cp, sph and py in cherty qtz matrix of brecciated andesitic lava and rhyolite porphyry. Au and Zn values encountered.	1926-28: staked, geoph survey, trenching, 14 ddhs. 1937, 1945-46: dd. 1956: surface work, geoph survey, 7,634' in 31 ddhs. 1960-66: geoph surveys, dd, 200 tpd mill, shaft sunk, u/g dev, small prod. 1968-69: dd, resource calcs. 1977: airborne mag, EM and rad surveys by Ont.	ind: 133,200 at 2.22% Cu in H, A, and C zones 1969 (Allied Mng Corp, 1969 AR)	Production was haltec in November 1966 due to financial difficulties and later bankruptcy of Irvington Mng CL. Assets sold to United Obalski Mng CL in 1967.
ONT-206 ORPIT Holmer GML 42 A/5 48°22'55" 81°33'	Gold is found in qtz carbonate stringers in argillite. Mineralization is up to 60' thick by 600' long to 800' depth.	1911-28: surface work, shallow shafts. 1938-45: dd. 1964-75: mag survey, dd, geol mapping. 1981: feasibility studies, 13 ddh, stripping, sampling, mapping.	720,000 at 0.11 oz/t Au to 850' 1982 (NM 12/08/82)	Feasibility study ind a 300 tpd operation.

ONT-207	AUGDOME Augdome Corp L 42 A/6 48°27'20" 81°14'40" (Gold Zone)	Ultramafic rocks altered to serpentinite intrude Keewatin volcanics. Auriferous qtz and carbonate stringers occur in the NW edge of the serpentinite. A large band of minute inclusions of millerite as well as a narrow lean Fe fm consisting of magnetite and siderite, also occur within the serpentinite.	1909-35: trenching, 8 ddhs. 1936-49: examined from 1,050' level of the Preston East Dome mine, dd, mag. 1959-64: surface and u/g dd. 1965-68: discovery and dd on iron and nickel zones. 1974: renewed dd on gold zone. 1980: deep dd on gold zone, geoph and dd Cu-Ni zone. 1982: dd.	(i) Gold Zone: 142,800 at 0.15 oz/t Au 1981 (CMH 1981-1982, p 44) (ii) Nickel Zone: 50,000,000 ind of "marginal nickel ore" 1968 (NM 04/07/68) (iii) Iron Zone: 20,000,000 ind at about 30% soluble Fe to 1,000' 1967 (NM 26/01/67)	Gold zone is open at both ends. The grade in the nickel zone appears to be around 0.17% Ni. Further exploration is planned for the low grade Ni-Cu zone, and for gold zone from Preston mine underground. Dd being done by Dome ML from their 4,200' L to check Augdome structure.
ONT-208	CARMAN BAY Seneca Devs L (in 1977) 42 A/6 48°22'30" 81°00'30"	Ni-bearing ultrabasic intrusive complex underlies an area 5,300' x 3,800'. Sulphides incl heazlewoodite, millerite, pn and awaruite.	1967-72: expl pits, line cutting, mag and EM surveys, dd, laboratory studies.	ind: 740,000,000 at 4-6.5 lbs/t Ni 1971 (Seneca Devs L, VSE SMF 06/07/73)	The resource figure incls all peridotite material to a depth of 1,000'.
ONT-209	CARSHAW Gowganda Res Inc 42 A/6 48°22'40" 81°05'10"	Qtz-carbonate veins and stockworks containing py, po, gal and Au are present in an Fe fm consisting of chert and mag.	1931: dd, shaft to 143', minor prod. 1945-51: surface and u/g dd, drifting. 1981: bulk sampling, 4,000' dd, site clearing. 1982: 5,000' dd, dewatering.	est: 570,000 at 0.147 oz/t Au, 50,000 to 100,000 t by o/p 1983 (Gowganda Res Inc, 1981-07/82 AR)	Bulk sample of 3,000 lbs in 1981 returned 0.73 oz/t Au, 2.84 oz/t Ag. Ore is free milling and expected recovery rate is 97.3%. Gowganda is negotiating financing.
ONT-210	DE SANTIS GOLD MINE J V Bonhomme 42 A/6 48°25'18" 81°23'08"	Gal, sph, cp and scheelite in qtz veins in interflow lavas, in qtz tension fractures and in silicified porphyry dykes.	1914-22: two expl shafts. 1931-39: shaft deepening, u/g dev, minor prod in 1933. 1939-42: prod at 160 tpd, recovery of Au-Ag-WO_3. 1944: dd. 1960-63: dd, u/g work. 1981: 25,000 ' dd.	ind: 265,000 at 0.40 oz/t Au 1963 (NM 23/01/64)	Closed in 1942 due to wartime priorities.
ONT-211	DELNITE Pamour Porcupine ML 42 A/6 48°26'10" 81°17'34"	Carbonatized Keewatin basalt enclosed in serpentinized ultramafics contains native Au and Au in association with py and asp.	pre-1928: surface work. 1931-36: shaft sinking, mill erected. 1937-64: 3,847,364 tons milled. 1964-present: workings used to service Aunor (Pamour No 3 mine) mine.	'in place, stopes, sills, drifts': 114,767 at 0.240 oz/t Au 1964 (Delnite ML, 1964 AR)	Not available how much, if any, of the 'on closing' resources have since been mined.
ONT-212	FULLER-TISDALE (TISDALE-ANKERITE) Vedron L (option) 42 A/6 48°27'06" 81°16'24"	Auriferous qtz-carbonate veins in Keewatin metabasalt, near the north contact of a serpentinite intrusive.	1938: 14,000' of dd. 1951-52: u/g levels driven at 1,550' and 2,500' from Buffalo Ankerite mine; 14,655 tons milled; dd.	pot: 391,680 at 0.157 oz/t Au after dil and mill recovery (NM 29/02/81)	Vedron L acquired option to purchase Fuller and Tisdale-Ankerite properties in March 1979. Joint venture with Pamour Porcupine ML in 1982.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-213 LANGMUIR Noranda ML and Inco L 42 A/6 48°19'50" 81°02'08"	Py, po, pn and cp found either massive, disseminated, spinifer or as breccia along the basal contact of an ultramafic flow unit.	1959-60: EM survey, dd. 1964-66: ground mag and EM, dd. 1973-78: u/g dev, mng operations, expl dd, mng ceased 1978 after prod of 25,729,600 lbs Ni.	proven, prob and poss: 540,000 at 1.3% Ni 1978 (Noranda ML, 1978 AR).	Persistent ground problems combined with declining ore grade and weak market conditions justified mine shut down in 1978.
ONT-214 McWATERS Coldstream ML Quebec Manitou ML (in 1976) 42 A/6 48°18'48" 81°02'28"	Py, pn, millerite and minor cp disseminated to massive within ultramafic intrusive. Best zone 300' long x 50' wide from surface to 300' depth.	1961-62: mag and EM surveys, dd. 1964-65: dd, metallurgical test. 1967: deep EM survey, dd. 1971: geoph surveys, metallurgical tests, dd.	dd-ind: 477,768 at 0.73% Ni in Upper zone plus 165,790 at 1.92% Ni in Lower zone (15% dil) 1964 (Ont GR 86, p 47, 1970)	No significant mineralization was located beneath or along strike of the deposit.
ONT-215 NAYBOB Kenilworth ML 42 A/6 48°25'15" 81°20'25"	Auriferous qtz veins, in rusty carbonatized schists which have been altered from basic Keewatin lavas.	1915-31: shaft to 719', 6 levels established. 1932-48: intermittent prod, shaft deepened to 1,347', 5 more levels established. 1962-65: u/g work, some prod, a total of 304,100 tons milled from 1932-64.	1,000,000 at 0.129 oz/t Au in tailings c 1962 (NM 06/09/73) prob-poss: 27,735 in place at 0.23 oz/t Au (cut) plus small tonnage below lowest level. (W R Dunbar 28/11/65, in Prospectus, Kenilworth ML, 23/02/66)	
ONT-216 PAYMASTER Associated Porcupine ML 42 A/6 48°27.5' 81°15.8'	Gold-bearing qtz-carbonate veins in greenstone, dacite and spherulitic and amygdaloidal pillow lavas intruded by and associated with several bodies of qtz porphyry. The deposits are located on the south limb of the Porcupine Syncline.	1915-30: intermittent prod from 2 mines. 1934-66: 9 shafts, prod to 6,025' level, majority of the 5,607,402 tons milled. 1972-73: feasibility study conclusion was Au at $135/oz needed for economic dev. 1978-79: feasibility study - results N/A. 1980: cost study.	519,000 at 0.25 oz/t Au (cut) to 6,000' level 1972 ? (CMH 1975-76, p 32) or 295,300 at 0.256 oz/t Au 1966 (Porcupine Paymaster L, 1966 AR) or 795,000 at 0.23 oz/t Au (NM 04/12/80)	The 700-ton mill is "pretty well intact". Closure in 1966 attributed to rising costs and lack of labour. Preprod costs est $19 million in 1981.
ONT-217 PORCUPINE SOUTHGATE Cdn Magnesite ML 42 A/6 48°22'25" 81°16'20"	Magnesite, talc and silica alteration of serpentinized ultrabasics, which intrude Keewatin lavas. The whole complex is cut by qtz diabase dykes. Magnesite content is as high as 60% and more.	1945-46: dd, mapping, claims surveyed and patented. 1959: mapping, dd, sampling, minor testing. 1963: dd, metallurgical testing. 1964-65: pilot plant tests by Lakefield Research and Canmet. 1970-75: further testing to produce high purity talc with adequate quality magnesite.	dd-ind: 100,000,000 at 50% magnesite, 25-30% talc c 1963 (Ind Mnrls, p 41, Apr 1971)	Mineable by o/p. Tests in 1975 indicated a high quality talc could be produced but the iron content of the magnesite is too high.

ONT-218	PRESTON MINE Dispdaume ML 42 A/6 48°27'17" 81°14'21"	Qtz-ankerite stringers in porphyry; qtz veins in fractures; shatter zones; and composite orebodies occur in qtz-feldspar porphyries within Keewatin volcanics.	1909-15: discovery, shaft sinking, some u/g dev. 1922-26: dd, shaft on Martin property to 265', u/g dev. 1933-39: u/g preparation for dev, some mng. 1939-68: mng operations, 6,284,405 tons milled at 0.245 oz/t Au and silver. 1980: new headframe. 1981: rehabilitated u/g to 750' level, dd. 1982: geol and drill surveys, dewater to 500'.	"a significant tonnage in the 0.15 oz/t Au range" 1979 (NM 01/11/79)	Plan to finance mill to process ore from this prop and custom mill from others in area.
ONT-219	REDSTONE NICKEL Utah ML 42 A/6 48°19' 81°10'	Dis to ms, po, pn, minor cp in talc, carb chl zone of probable Archean ultramafic rock at the contact with felsic tuff.	1977-79: air geoph, disc, dd. 1980: mag survey.	749,000 at 2.29% Ni to 700' 1978 (Utah ML, written comm, 04/82)	Company applied for lease status in 1981.
ONT-220	TOMMY BURNS M & M Porcupine GML 42 A/6 48°22'48" 81°05'03"	Auriferous qtz fractures in Fe fm consisting of hematite, qtz and mag.	1910-23: 2 short shafts. 1931-46: test pitting, dd, u/g work, 292 ton test sample shipped to the Buffalo Ankerite mill. 1964-65: dd. 1979-80: sampling, dd. 1981: dd, geoph.	pot: substantial tonnage at 0.07 oz/t Au of which 100,000 o/p mineable 1979 (NM 06/03/80)	Sunmist Energy Res L, optionee, intends to do close spaced dd with NQ core to determine resources.
ONT-221	PREMIER LANGMUIR Peerless Cdn Expls L (in 1967) 42 A/7 48°16'55" 80°59'40"	Barite veins along volcanic-intrusive contact contain subhedral crystals or fine grained crystalline aggregate. Some ultramafics.	1911-49: 190' adit, 2 shafts, 30 ton mill, u/g dev, prod of 1,955 tons $BaSO_4$. 1964-66: re-evaluation of barite veins, dd, EM and mag surveys. 1982: ddh.	ind: 112' x 3.72' at 68.9% $BaSO_4$ or 336 T/VF at 55.7% $BaSO_4$ plus 450' x 5' at 55.7% $BaSO_4$ or 250 T/VF at 55.7% $BaSO_4$ 1965 (Ont GR 86, p 53, 1970)	In 1965 possible nickel sulphide mineralization associated with ultramafics was examined. Core assays ranged from 0.3 to 0.17% Ni. 1982 dd was done by Extender Mnrls of Can L.
ONT-222	GUNNAR Barymin Expls L 42 A/8 48°29'20" 80°18'40"	Mineralized zone cutting mixed acidic and intermediate volcanics.	1949: dd. 1974: dd. 1980: dd. 1981: dd.	inf: 61,000 at 0.21 oz/t Au 1981 (Barymin Expl L, Int Rept, 31/01/81)	
ONT-223	KELORE New Kelore ML 42 A/8 48°29'45" 80°17'10"	Gold mineralization in syenite and adjacent syenitized lavas found mostly along qtz stringers.	1934-35: dd, trenching. 1939-40: shaft sunk 320', u/g dev incl work on 3 levels and dd. 1946-49: dd, shaft to 450', u/g dev, drifting, cross-cutting, raising and dd. 1973-76: mapping, sampling, mag and EM surveys, dd, mine dewatered, u/g expl, dd, drive from Ross mine incomplete.	ind: 320,000 at 0.17 oz/t Au above 500' 1975 (NM 22/04/76)	Hollinger Argus L retains lease until 1984; ore zone appear to extend deeper.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
QUE-224	LUDGATE LAKE Garrison Creek Cons ML 42 A/8 48°29'04" 80°05'35"	Gold in Archean acid intrusives within a zone 1,200' long, extending to a depth of 700'.	c 1946: discovery. 1946-47: tr, 15,612' dd, mag. 1981: 8 ddh.	(i) Lake Zone: 1,115,000 t pot at 0.095 oz/t Au (ii) South Zone: 83,000 pot at 0.12 oz/t Au 1981 (NM 10/06/82)	South Zone T-G est from data from 2 ddh only.
ONT-225	MELBA Silver Pack Res L 42 A/8 48°20'05" 80°07'12"	Qtz-calcite vein in greywacke and parallel to andesite contact.	1934-39: trenching, dd, shaft to 246', u/g work. 1959-62: resampled workings, u/g dd.	(i) Blue vein: 275' x 3.1' at 0.343 oz/t Au (ii) Breccia vein: 80' x 3.1' at 0.658 oz/t Au 1981 (NM 05/03/81)	2,000 tons avg 0.20 oz/t Au reported in dump.
ONT-226	VIMY Vimy GML (in 1964) 42 A/8 48°28' 80°23'30"	Gold and py in qtz stringers within altered basic pillow lavas.	1934-36: prospecting, trenching, dd, o/p dev, shallow shaft, bulk sampling. 1946: mag survey, dd. 1961-64: dd. 1981: 1 ddh, 699' overburden.	ind: 13,200 or 352' x 4.2' at 0.234 oz/t Au 1946 (NM 14/11/46)	Asarco Expl C of Can L did 1981 work.
ONT-227	ALJO MINE Dalhousie Oil CL (in 1978) 42 A/9 48°37'25" 80°21'08"	Gold associated with qtz and py in fracture fillings within volcanics and intrusives.	1916-24: shafts to 200' and 450'. 1937-40: No 2 shaft deepened to 575' with a winze to 650', 2,333 tons milled.	(i) Eastern Mine Area: 10,000 at 0.20 ozs/t Au (ii) Stockpile: 7,000 at 0.08 oz/t Au 1940 ? (Ont AR 1947, Pt 7, p 22)	
ONT-228	HEADWATER Hardill Res L 42 A/9 48°36'30" 80°21'	Auriferous qtz veins in carbonatized intermediate to mafic flows.	1913-16: exploratory shaft. 1921-28: shaft to 514', 2 winzes, u/g dev on 5 levels. 1933-34: mill erected, mine dewatered, stoping, prod. 1944-45: dd. 1957: surface expl, dd. 1980: dewatered.	109,451 at 0.484 oz/t Au or 375,000 at 0.286 oz/t Au or 128,000 at 0.857 oz/t Au 1957 ? (NM 20/03/80)	81 ozs Au and 33 ozs Ag from 500 tons bt. 1923-34. Larder Res Inc optioned property in 1980.
ONT-229	WHITE-GUYATT White-Guyatt Mng CL (in 1947) 42 A/9 48°32'25" 80°15'19"	Mineralized qtz vein in sediments.	1908-15: 2 shafts, small u/g dev. 1936-46: trenching, dd, 1,432' lateral dev.	110' x 2.58' at 0.31 oz/t Au 1936 (CMH 1938, pp 288-89)	In 1911, 10 ozs Au were recovered from 50 tons of ore.
ONT-230	AQUARIUS Asarco Expl C of Can L 42 A/10 48°31'21" 80°52'57"	Free gold in talcose carbonated ultramafic host adj to a talc-chlorite schist.	pre 1936: geoph. 1940-46: 62 ddh. 1946-48: shaft to 565', levels at 400', 525', dd. 1967: EM, 1,338' dd. 1980: 23 ddh. 1982: 20,000' u/g dd, test mill 150 tpd, 9,000 t dev ore milled.	prob: 280,000 at 0.22 oz/t Au 1983 or ind: 400,000 at 0.26 oz/t Au 1983 (OGS MP 107, p 86)	Project is presently inactive but mine is being pumped out and shaft and hoist are being maintained.

ONT-231	STOCK TOWNSHIP St Andrew Goldfields 42 A/10 48°32'45" 80°45'	Gold in qtz stringers in a folded flow top in altered andesitic rocks. Host rock is bleached and contains 1-5% py.	1972-73: mag survey, dd. 1974-75: dd, shaft sunk through 48' of overburden and into 12' of bedrock. 1980: deepening shaft with u/g dev and dd. 1981: dd, shaft to 270'.	ind: 700,000 at 0.14 oz/t Au (cut) 1974 (Quebec Sturgeon ML, 1977 AR) 580,375 at 0.14 oz/t Au to 325' 1983 (NM 31/03/83)	Mineralization and gold values seem comparable to Porcupine area deposits and extend over 2,000'. $14 million in financing has been raised for u/g dev program.
ONT-232	BROULAN REEF-HOYLE TWP Broulan Res Inc 42 A/11 48°33'33" 81°10'00"	Mineralization in sericite carbonate veins in basalt.	1958: trenching. 1959: 6 ddh, 2,014'. 1980-81: discovery, dd. 1982: dd 25,000'.	dd-ind: 500,000 at 0.193 oz/t Au (cut) to 650' 1982 (NM 18/11/82)	In North zone. Potential of the Bell Creek zone is to be investigated. Engineering, prefeasibility studies, metallurgy testing to be done by Du Pont of Can Expl L and Amax of Can L.
ONT-233	DAVIDSON TISDALE Davidson Tisdale ML 42 A/11 48°30'55" 81°13'28"	Gold occurs at the contact of a qtz vein and altered Keewatin lavas, and also within fracture planes in the lavas.	1916-24: shafts to 810', 312', 9,371 tons milled. 1945: dd. 1978-79: reopened on 500' level, 50 tpd mill set up, drifting on 800' level. 1982: geoph, stripping o/p area.	582' x 10.4' at $2.69/t Au 1924 (Ont GR 58, p 82, 1968)	These dimensions were taken on the 500' level. 1978-79 work by J M Ore Dressing Equipment CL of Timmins. Pamour Porcupine milled 829 t for DT in 1980. In 1981, Dome ML optioned the property and since this agreement terminated DT are working alone.
ONT-234	HALLNOR MINE Pamour Porcupine ML 42 A/11 48°31'06" 81°08'36"	Py, po, sph and Au in qtz veins within carbonatized zone along basalt-sedimentary contact. Upper orebodies contained higher grade ore than Lower bodies.	1935-73: dd, shaft to 3,477' with u/g dev on 22 levels, incline winze to 3,700' and internal shaft to 5,060'. 1974-76: small prod. 1980: dev programme.	500,000 Au, grade unstated 1979 (NM 06/03/80)	Between 1935-76, about 1,600,000 ozs Au and 114,000 ozs Ag were recovered from 4,197,210 tons of ore. Mine reopened April 1980 and prod until Feb 1982.
ONT-235	HOYLE POND Kidd Creek ML 42 A/11 48°32'30" 81°05'40"	Five parallel zones of mineralization with vg in volcanics and metasediments. Zones are near vertical and strike N 65° E.	1980: discovery, 10,000 dd. 1981: dd.	(i) 1,200' x 7.43' to 650' at 0.45 oz/t Au (ii) 300' x 12' at 0.30 oz/t Au (iii) 300' x 25' at 0.18 oz/t Au 1981 (CMJ, p 15, Dec. 1980) or 500,000 t at unstated grade, in 3 zones 1980 (MR 189, p 25, 1981)	The deposit lies near the Kidd Creek concentrator and exploration is continuing - a long decline is proposed. Deposit is open to depth.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-236	INTEX-FRANKFIELD Intex Mng CL Frankfield Expls L 42 A/11 48°44'05" 81°12'00"	Intex zone in brecciated marcasite-py-graphitic tuff within flows intruded by a peridotite. Frankfield Au-qtz veins in tuffaceous andesite near peridotite contact.	1965-70: mag and EM surveys, dd. 1974-76: dd. 1980: geoph. 1981: dd, 11,000 geoph. 1982: dd.	(i) Frankfield zone: 120,000 at 0.22 oz/t Au to 200' 1979 (ii) Intex zone: 93,750 at 0.21 oz/t Au 1979 (H D Carlson, July 1979 for Romex Resources Inc)	Both zones are open ended and open down dip.
ONT-237	NICKEL OFFSETS Nickel Offsets L 42 A/11 48°43'24" 81°11'12"	Gold with py, cp in qtz-carb stringers within early Precambrian tuffs. Zone traced for a length of 750' and to depth of 600'.	1964: ground and airborne EM and mag. 1969: discovery, dd 14,675'. 1981: dd, 11,000', geoph.	ind: 650,000 at 0.17 oz/t Au (cut and dil) or ind: 300,000 at 0.27 oz/t Au to 600' depth 1981 (NM 23/07/81)	Overburden is about 100' deep. Tonnage includes 20% dilution, original zones reported to have been extended by 1981 dd.
ONT-238	LUCAS Abitibi-Price Inc 42 A/14 48°49.5' 81°12	Mineralized zone is black cherty rock containing qtz stringers and veins with py dipping N.	1980: discovery. 1981: dd. 1982: 9 ddh 5,437', geoph.	est: 235,000 at 0.10 oz/t Au 1982 (OGS MP 107, p 87, 1983)	Zone occurs between 250'-450' depth along 200' with true width of 27'.
ONT-239	GROUNDHOG J Charlebois (in 1971) 42 B/1 48°00'04" 82°19'48"	Auriferous qtz vein in shear zone within Archean schistose chloritic andesite.	1918: discovery. 1928-48: stripping, pitting, dd, geoph.	1,000' x 3.4' at 0.31 oz/t Au 1948 (Ont OFR 5156, p 215, 1975)	
ONT-240	LEFEVER-SILAMS G Lafleche (in 1973) 42 B/1 48°01'42" 82°19'48"	Po, cp and py within Au and Ag bearing qtz-carbonate veins and stringers in mafic volcanics and metagabbro.	1936: trenching, dd. 1948-60: trenching, sampling, dd.	250' x 150' x 4-20" at 0.43-3.46 oz/t Au, nil-0.80 oz/t Ag 1960 (Ont OFR 5097, pp 82-83, 1973)	
ONT-241	QUEENSWAY G Lafleche (in 1973) 42 B/1 48°01'10" 82°13'14"	Py, cp and asp in shear zones within feldspar porphyry dykes.	1936: stripping, trenching, 1 ddh. 1950-51: 2 ddhs, 2 test pits. 1961-63: 4,247' of dd.	250' x 3.0' at 0.51 oz/t Au plus 200' x 1.7' at 0.25 oz/t Au 1963 (Ont OFR 5156, p 221, 1975)	22 holes drilled in 1961-63 but depth extensions of zones not given.
ONT-242	REEVES MINE Johns-Manville Can Inc 42 B/1 48°12'20" 82°04'59"	An irregular-shaped stock of serpentinized dunite is cut by numerous asbestos-bearing fractures. The asbestos zone is c 500' wide and is at least 2,200' long.	1952-53: geoph, dd. 1961-67: trenching, dd, shaft, u/g expl, bulk samples sent to Munro mill, expl shaft subsequently filled in, mill erected on site. 1968-75: prod; to end of 1970 - 3,291,644 tons milled.	20,000,000 at 3.0-3.5% Asb 1967 (Ont GR 97, p 68, 1972)	Mill capacity 5,000 tpd. Mine closed in 1975 due to problems with excessive fibre content in plant air.

ONT-243	NEMEGOSENDA Dominion Gulf C (in 1968) 42 B/3 48°01'10" 83°05'08"	Alkaline intrusives host pyrochlore, U, Th, rare earths, Zr, apatite and mag. Ore block measures 600' x 800' x 600' deep.	1954-61: airborne mag survey, detailed geol and mag survey, dd, 580' adit, test sample.	ind: 20,000,000 at 0.47% Cb_2O_5 in Zone 'D' 1956 (Ont SMDR 001108, 1976)	Pilot plant studies in 1961 indicate that the ore is amenable to direct chemical treatment with 90% columbium recovery.
ONT-244	BRAMINCO Braminco ML 42 B/5 48°21'52" 83°51'26"	Several auriferous qtz veins within an Archean granodiorite batholith.	1946-47: 12,771' of dd.	100,000 at 0.13 oz/t Au (cut) plus 28,400 at 0.15 oz/t Au 1947 (FP Surv Ms 1950, p 151	From 3 zones. Possibility of milling at the Renabie mine.
ONT-245	NUDULAMA Anglo Dominion G Expl L 42 B/5 48°22'38" 83°51'25"	Qtz veins carrying py, gal and cp occur in the gneissic border phases of a granite batholith. They are localized in minor shear zones and are highly irregular in extent and persistence. Gold is apparently associated with the sulphides.	1947-51: dd, 7 level shaft to 1,065', surface plant erected except for a mill, power line constructed. 1974: dd, IP survey. 1975: surface expl and dd.	prob: 499,000 at 0.146 oz/t Au to 650' plus poss: 104,000 at 0.075 oz/t Au bt 650'-750' 1973 (Nudulama ML, 1973 AR)	Anglo Dominion is hopeful that if the adjacent Renabie is operating then their ore can be custom milled at Renabie's mill.
ONT-246	RENNIE Westfield Mnrls L 42 B/5 48°25'02" 83°56'12"	Stringers of sph, py and some gal and cp in tuffaceous metapyroclastics.	1939: discovery. 1946-53: stripping, dd. 1962-71: mag, EM, IP, stripping, trenching, dd. 1980: geochem, geoph, dd. 1981: pros, geoph, geochem.	350' x 4.3' at 14.8% Zn, 10.6 oz/t Ag 1965 (Ont GR 90, p 49, 1971)	Staked additional claims in 1980.
ONT-247	MONTCALM Teck Corp (30%) Metallgesellschaft Can L (30%) Domik Expl L (30%) Lynx-Can Expls (10%) 42 B/9 48°40'30" 82°05'30"	Disseminated to massive po, pn, cp and py hosted by porphyritic mafic rocks. Gabbroic intrusion cut by 10 to 40 metre thick granite dyke.	1975-77: airborne EM, ground follow-up, dd, 11.5 mi winter road, feasibility study. 1980: road constructed. 1981: feasibility study new zone discovered.	dd-ind: 4,200,000 at 1.2% Ni, 0.6% Cu 1981 (Teck Corp 1981 AR)	In 1977 project was deemed feasible at 1,100 tpd milling rate. Production decision deferred pending improved Ni market. A 19 km road was built to the property.
ONT-248	BIG LAKE Algoma Central Railway 42 C/2 48°10'18" 84°36'22"	Two py lenses in a N-S Algoma type iron formation within mixed mafic and felsic metavolcanics are cut by diabase sills.	1950-51: geol, x-ray dd, discovery. 1953: dd, res est. 1967: some expl work.	ind: 1,907,650 at 30.7% S, 39.0% Fe, 7.87% SiO_2 plus poss: 462,420 at 30.2% S, 33.8% Fe, 8.6% SiO_2 1953 (A W Jeckell 06/03/67 in Prospectus, Jogran ML 05/04/67)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-249	EGO Ego Res L (45.64%) United Canso Oil & Gas L (38.36%) Convego Res L (16%) 42 C/2 48°14'10" 84°37'40"	Cp, po, py and sph associated with some Au in a shear zone 1,000' l x 200' w x 600' d within volcanic rocks.	pre-1918: trenching, test pitting. 1959-65: geoph survey, tr, extensive dd. 1974-78: dd, 2 declines driven, feasibility study. 1980: 4,000' dd, feasibility study.	370,000 at 1.6% Cu, 0.11 oz/t Au in 7 zones to 500' d 1974 (NM 03/10/74)	An economic operation was not possible in 1978. Further work is planned for 1980. United Canso is operator.
ONT-250	GOUDREAU Algoma Central & Hudson Bay RR 42 C/2 48°14'00" 84°36'05"	Qtz-carbonate veins in shear zone within Archean meta-volcanics. Main vein 2,000' x 2-10'.	1921-40: 2 shafts, intermittent prod totalling 23,211 tons. 1958-61: rehabilitated No 1 shaft, u/g dd and sampling. 1982: geol survey.	60,000 at $11.20/t Au 1961 (NM 27/04/61)	
ONT-251	HOLDSWORTH Soocana Mng CL (in 1940) 42 C/2 48°06'12" 84°34'20"	A qtz vein containing py, cp, po, and gal within mafic lavas.	1933-34: dd, shaft to 160', 60 tons milled.	ind: 20,000 at 0.57 oz/t Au 1935 (Sudbury Star 16/10/35)	10 ozs of Au and 5 ozs of Ag were recovered.
ONT-252	HOLDSWORTH PYRITE D G O'Reilly 42 C/2 48°06'32" 84°34'52"	Two massive py lenses in Archean metavolcanics. East lense is 1,100' long by 18-25' wide and west lense 600' long by 31' wide.	1918-19: discovery, dd, res est. 1926; 29; 59: prop changed hands, work report N/A.	dd-ind: 900,000 at 46.31% S in 2 lenses 1919 (GSC Mem 147, p 124, 1926)	The sulphur grade is based on the average value of 3 ddhs.
ONT-253	KOZAK Algoma Central Railway 42 C/2 48°12'30" 84°32'45"	Qtz stringers containing small amounts of sph, gal, py, cp and argentite, in qtz-sericite schist.	1927-34: trenching, shaft 110'. 1952-61: geoph, dd, u/g and surface sampling. 1967-74: surface work, dd, u/g expl. 1980: str, tr, sample. 1981: 4,000' dd.	ind: 359 T/VF at 0.18 oz/t Au, 8.06 oz/t Ag 1961 (CMH 1977-78, p 179)	In 9 parallel zones. Optioned in 1981 by Golden Spoke ML.
ONT-254	LAKEMOUNT Firespur Expls L 42 C/2 48°03'45" 84°37'40"	Disseminated cp, po, pn, minor py in a large mafic Archean intrusive of serpentinized peridotite and pyroxenite.	pre-1943: trenching, pitting, stripping, dd. 1944-45: dd. 1952-62: geol and EM surveys, dd. 1979-80: tr, geoph, dd. 1981-82: dd.	2,000,000 at 0.4% Cu, 0.6% Ni plus Pt 1962 (CMH 1963, p 164)	Evaluating number of base metal showings.
ONT-255	MURRAY-ALGOMA Murray-Algoma ML (in 1939) 42 C/2 48°05'30" 84°36'45"	Several parallel auriferous qtz veins cutting volcanics.	1933-37: surface work, dd, adit, 500 tons test milled.	6,000 at 0.43 oz/t Au 1938 (CMH 1938, p 193)	Average grade from test material was 0.17 oz/t Au.

ONT-256	RAND NO 2 Irsugo Cons ML (in 1973) 42 C/2 48°14'15" 84°32'40"	Two EW trending qtz-py-siderite bands from 80 to 275' wide are composed of lower siderite member, intermediate py member and upper silica member within Archean metavolcanics.	1915-16: discovery, dd. 1920: 100' adit. 1941: 11 ddhs, u/g dev. 1967-69: u/g dev, dd, feasibility study completed.	prob-poss: 13,000,000 at 25.9% S to 300' 1969 (NM 26/06/69)	A 2,000 tpd mill was planned but a sulphur market could not be found and the project was shelved.
ONT-257	REED-BOOTH PROSPECT Soocana Mng CL (in 1940) 42 C/2 48°05'55" 84°34'05"	Two silicified shear zones cut mafic lavas and qtz porphyry.	Early 1930's-40: shaft to 125'.	80,000 Au, grade unstated 1934 (FP 03/11/34)	Mineralization was considered to be extractable by o/p methods.
ONT-258	REGENTRY METALS Int'l Ranwick L (in 1958) 42 C/2 48°04'35" 84°35'30"	Highly fractured granite batholith contains qtz and calcite stringers mineralized with mo.	1937-40: geoph, shaft to 243', 8,000' of dd, small bulk sampling mill and 400 tons milled. 1958: u/g sampling and dd.	170,000 at 1.0% MoS_2 to 300' 1940 (NM 18/01/40)	Concentrate obtained in 1939-40 was too low in MoS_2 and too high in Cu.
ONT-259	AMICHI Amichi GML (in 1957) 42 C/3 48°04'47" 85°23'35"	Gold showings in carbonated and silicified zones in sediments.	1938: surface work, dd. 1948-52: stripping, cross trenching, dd.	40' x 3.8' at 0.27 oz/t Au; 60' x 2.2' at 0.68 oz/t Au and 120' x 3.1' at 0.75 oz/t Au 1951 (J F Wright 14/04/51 in Prospectus, Amichi GML, 1951)	
ONT-260	GOUDREAU RANGE Algoma Steel Corp L 42 C/7 48°16'30" 84°28'18" (Morrison No 3)	Main py deposits associated with Archean qtz-carbonate-py iron fm of Algoma type sulphide facies hosted by mafic and felsic volcanics.	1914: test pits, dd of "D". 1918-19: geol survey, surface work on McPhail. 1918-19: trenching, dd, shaft to 230' with u/g dev on 2 levels on Morrison No 3. 1963: dd, res est.	(i) Goudreau "D": 150,000 dd-ind at 28.4% S, 41.3% Fe in South limb plus 150,000 dd-ind at 24.15% S, 36.38% Fe in North limb 1914 (Ont MRC 5, p 25, 1967) (ii) Morrison No 3: 130,000 dd-ind at 31.7% S, 40% Fe, 6% SiO_2, o/p mineable 1963 (Ont MRC 5, p 28, 1967) (iii) McPhail: 500-600' x 40' at 38% S, 40% Fe, 6% SiO_2 1919 (Ont SMDR 001017, 1974)	Although no further work has been performed on the range since 1963, the company maintains the property in good standing. Parts of the range were completely mined bt 1914-19 and 1959-62.
ONT-261	KREMZAR Kremzar GML (in 1942) 42 C/8 48°18'15" 84°26'30"	Vein qtz mineralized with py, po, cp and Au.	1929-42: surface work, dd.	60' x 2' at 0.90 oz/t Au; 140' x ? at 0.45 oz/t Au; and 150' x 6' at 0.277 oz/t Au 1934 (Ont MRC 13, p 40, 1971)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-262	MAGINO (ALGOMA SUMMIT) McNellen Res Inc Cavendish Investing L 42 C/8 48°16'55" 84°27'10"	VG with py, cp, po in qtz veins in granodiorite stock that intrudes Keewatin greenstones. Scheelite occurs as dis plates and veinlets in Au veins.	1918: discovery. 1934-39: prod 8,466 oz Au, 509 oz Ag. 1942: small prod. 1952: small prod. 1981: dd. 1982: dewatered, shaft rehab, 42 ddh, 8,507' u/g sampl, relogging core, metallurgical testing.	prov: 14,064 at 0.36 oz/t Au prob: 61,221 at 0.29 oz/t Au poss: 120,322 at 0.25 oz/t Au 1982 all values cut and above 400'. (McNellen Res Inc, VSE SMF 20-83)	Prop purchased in 1981 by Rico Copper (1966) L now McNellen Res Inc.
ONT-263	PICK Frank Tripoli (in 1974) 42 C/8 48°19'00" 84°21'30"	Au bearing qtz veins in greenstone belt. Ore mnrls incl Ag, Mo, and W.	1918: discovery. 1924-42: main shaft to 1,200'; 8 levels, u/g dev; 331,842 tons milled bt 1938-48. 1960-67: dumps sampled, trenching, dd, u/g dewatering, drifting.	ind: 20,000 at $20/t Au (c 0.53 oz/t Au) 1967 (NM 24/10/68)	A decline in grade and poor development forced mine closure. Pick ML attempted to redevelop property during 1960s.
ONT-264	GOLDEN GIANT Goliath GML Golden Sceptre Res L 42 C/12 48°41'35" 85°54'30"	Similar to that of Lake Superior and appears to be the down dip of the Ollman-Williams property.	1980-81: geoph, dd. 1982: dd.	est 4,493 tvf (from 800' to 3,000' giving vert depth of 2,200' and tonnage of 9.88 million t) at 0.249 oz/t Au 1982 (OGS MP 110, 1983, p 228)	Agreement with Noranda Expl CL to manage all work, explore, construct and bring into prod a mine of at least 1,000 tpd by 1984, plus milling facilities would earn them 50% interest.
ONT-265	LAKE SUPERIOR Int'l Corona Res L 42 C/12 48°41'40" 85°54'10"	Au is associated within a mineralized siliceous and sericitic altered metavolcanic sediment. Zone is moderately sheared, strikes 107° E and dips 45°-60° N. Au is sulphide-py ore with Ag and significant Mo.	1947-51: geol mapping, 6,000' dd. 1951: 6,000' dd. 1957: dd. 1959: dd. 1973: 3 dd. 1980: geoph, EM and mag. 1981: 150 ddh. 1982: 26,000' dd, feasibility study.	East zone: 1,300,000 at 0.30 oz/t Au, 0.08% MoS_2 West zone: 325,000 at 0.09 oz/t Au to 125' for o/p. plus 213,000 at 0.129 oz/t Au u/g 1982 (OGS MP 110, 1983, p 227)	Teck Corp holds option since Nov 1981 and is doing drilling and feasibility work. Teck-Corona have optioned 1/4 claim to Noranda for shaft sinking that will enable them to mine the West zone under the agreement with Noranda.
ONT-266	OLLMAN-WILLIAMS Lac Mnrls L 42 C/12 48°41'42" 85°54'30"	The deposit appears to be similar to that of Lake Superior and on strike of their West zone.	1945: staking, surveying, pat. 1948: geol mapping, tr, dd. 1982: 18 ddh.	inf: 1,800,000 at 4.89 g/t to 150 m 1982 (Long Lac Mnrls L, press release 22/12/82)	Geol inf reseves may be in excess of 3 million at 0.18 oz/t Au. (Midland-Doherty Res Rept 02/83). These claims are subject to legal dispute between Lac and Int'l Corona Res L.

ONT-267	SUNRISE Michipicoten GML (in 1952) 42 C/15 48°58'18" 84°44'04"	Several auriferous qtz veins within Archean diorite.	1902-03: shafts to 100' and 20'. 1934-36: surface work, test sample.	200' x 32" at $14.50/t Au 1934 (NM 20/06/34)	A 1,450 lb test sample averaged 0.72 oz/t Au.
ONT-268	NICOPAR Nicohal ML (in 1972) 42 D/14 48°53'30" 87°18'05"	Po, py and mag with lesser amounts of cp and violarite as 3' width of massive sulphides along a contact of amphibolite and granite. Disseminated mineralization 10' into walls.	1950-56: mag and geol surveys, dd. 1969-70: detailed mag, dd, bulk sample.	ind: 375,000 at 0.44% Ni, 0.19% Cu to 600' d 1970 (Zenmac Mtl ML, 1970 AR)	Recovery up to 93.9% Cu and 79.1% Ni with satisfactory concentrates of Ni-Cu or either separately.
ONT-269	ZENITH (ZENMAC) Corp Falconbridge Copper 42 D/14 48°58'40" 87°21'48"	Sulphs in new zone below previous mined out orebody at contact of Precambrian gabbro and rhyolite.	1880: discovery. 1885-1901: prod 3,765 t. 1952: dd, 40,000. 1964: dd, shaft. 1966-70: prod 181,830 t at 16.5% Zn 1981-82: dd.	ind: 3,000,000 at 13.5% Zn, 1% Cu 1982 (NM 10/03/83)	Optioned from Zenmac Expls L.
ONT-270	HANNAM CLAIMS Chavin of Can L 42 D/15 48°48'20" 86°41'10"	Two fracture zones in chloritized trachytic volcanics containing erratic sph, py and gal. Width is 2' and combined length 1,300'.	1951-53: shaft to 51', adit, dd, geoph, 75 tons ore cobbed at shaft. 1968-70: EM, geochem, dd.	ind: 35,000 at 27.65 oz/t Ag, 19.87% Pb, 9.08% Zn in No 1 zone plus 36,000 in No 2 zone 1953 (Ont MRC 12, p 304, 1968)	Small zone but high grade suggests possible mining operation using a portable mill. D Bremner made the agreement with Chavin.
ONT-271	ANACONDA Anaconda C 42 D/16 48°46'56" 86°19'25"	Po, py and cp as interstitial fillings associated with ilmeno-mag phase of gabbro.	1962-67: geol, airborne and ground mag, IP surveys; trenching; pitting; considerable dd.	"in excess of 30 million at 0.45-0.50% Cu-Pt-Pd" 1977 (G A Barber 01/04/77 for Anaconda C, letter to Ont)	Assays for Cu ranged from 0.05-2%. The deposit may be too discontinuous for u/g development.
ONT-272	COUBRAN LAKE Parlake Res L 42 D/16 48°52'42" 86°29'42"	Disseminated po, cp and apatite associated with titaniferous mag lenses in olivine gabbro of the Port Caldwell alkaline complex. U, Th and rare earths in pegmatites cutting complex.	1954: geol mapping, dd. 1959-68: airborne mag and detailed EM surveys, extensive dd, metallurgical tests.	dd-ind: 50,000 T/VF at 0.22% Cu, 30% Fe in main zone 1964 (Lakehead ML, 1964 AR) plus potential large tonnage at 0.3% Cu, 25% Fe, 4.5% TiO_2 in Lake 3 zone 1968 (Lakehead ML, 1968 AR)	A serious metallurgical problem was found in separating the iron and titanium. Optioned in 1980 by Denison ML, who did exploration on W part with negative results.
ONT-273	PRAIRIE LAKE Nuinsco Res L 42 E/2 49°02'18" 86°43'06"	Uranium and columbium occur in pyrochlore mnrls within or close to ijolitic rocks containing abundant wollastonite in the NW sector of the Prairie Lake Alkaline Complex.	1968-70: rad, mag and geochem surveys; dd. 1975-78: ground acquisition, rad survey, trenching, pitting, overburden dd, deeper dd, metallurgical tests.	ind: 200,000 at 1.8 lbs/t U_3O_8, 5 lbs/t Cb_2O_5 to 275' 1978 (NM 03/05/79)	This tonnage may apply to the B-zone only. There are 4 known showings. Radioactivity indicated over 1,050' strike length.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-274	AUMACHO Urban Que ML (in 1977) 42 E/5 49°18'10" 87°59'55"	Three coarse grained spodumene pegmatite dykes occur in a granitic sill-like body.	1955-57: dd.	ind: 759,475 at 1.65% Li_2O in Nos 1 and 2 zones plus 96,000 at 1.5% Li_2O in No 5 zone 1957 (Ont GR 31, p 64, 1965)	
ONT-275	GEORGIA LAKE Evergreen Energy Res L 42 E/5 49°18'00" 87°55'40"	Medium to coarse grained crystals of potash and plagioclase feldspars, qtz, spodumene with some muscovite and apatite in a pegmatite dyke cutting metasediments.	1955: 55 ddhs totalling 13,555'. 1957: small amount of dd.	ind: 2,000,000 at 1.09% Li_2O plus poss: 4,000,000 Li_2O, grade unstated 1955 (N B Davies 27/12/55 in Prospectus, Ont Lithium CL, 31/01/56)	First discovery of lithium in Georgia Lake area. 27 claims held by lease, until 1991.
ONT-276	JEAN LAKE Jean Lake Lithium ML (in 1981) 42 E/5 49°2?'42" 87°55'52"	Spodumene-bearing pegmatite dykes cut Archean metasediments.	1955-56: 28 ddhs aggregating 16,053', part of dd was not done on main zone. 1957: geoph.	1,689,000 at 1.30% Li_2O 1957 (Jean Lake Lithium ML, 1957 AR)	Limits of deposit were never completely defined. Idle since 1957.
ONT-277	VEGAN Vegan Lithium ML (in 1965) 42 E/5 49°19'35" 87°57'20"	A spodumene bearing pegmatite dyke intrudes metasediments.	1955-56: 48 ddhs totalling 8,227'.	750,000 at 1.38% Li_2O 1956 (NM 22/03/56)	Over a length of 1,350' and a down-dip depth of 450'.
ONT-278	MacLEOD-COCKSHUTT Lake Shore ML 42 E/10 49°40'42" 86°56'10"	See Mosher.	1931-33: staked, dd. 1937-70: No 1 shaft to 2,250' with 14 levels and 1 sublevel, connected to No 2 shaft and Mosher mine, mill, prod.	See Mosher.	Between 1938-67, 1,366,404 ozs Au and 90,864 ozs Ag were recovered. Production incl with Mosher 1967-70.
ONT-279	MOSHER Lake Shore ML 42 E/10 49°40'46" 86°57'46"	Au bearing qtz veins within sheared and fractured metasediments close to an albite porphyry intrusive. 'F' zone is 20-60' wide, 400-700' high and 8,300' along plunge.	1933-39: discovery, dd. 1944-50: drive from Falmore, expl work, dd. 1952-58: No 1 shaft to 2,530' with 10 levels and 2 sublevels, No 2 shaft - 52'. 1959-70: MacLeod-Cockshutt mine connected by u/g workings, prod began in 1962.	869,873 at 0.107 oz/t Au combined for Mosher and MacLeod-Cockshutt 1969 (Ont AR 1969, p 21)	Resource calc prior 1970 salvage operations. Reasons for closing mine not given. Up to 1970, 513,424 ozs Au and 34,604 ozs Ag were recovered.

ONT-280	HARD ROCK MINE Lake Shore ML 42 E/10 49°40'38" 86°55'45"	Numerous Au bearing sulphide qtz lenses occur in iron formation and greywacke. Some ore is found in qtz veins and stringers within albite porphyry and sediments.	1931-32: discovery, surface work. 1934-51: u/g mng from 2 shafts, approx 269,000 ozs Au and 9,000 ozs Ag were recovered from 1,458,375 tons milled on site.	ind: 664,000 at 0.08 oz/t Au 1950 (CMH 1951, p 84)	The grade was too low for profitable mining in 1951, so the mine was closed.
ONT-281	TALMORA LONGLAC Tombill ML 42 E/10 49°41'25" 86°59'05"	Au, py, asp, cp, stibnite, antimony and some scheelite bearing qtz veins in shears and fractures within greywacke and diorite.	1934-39: trenching, dd, shaft to 544' with 3 levels, u/g drifting, crosscutting and dd. 1941-42: 40 ton mill erected. 1947-48: prod, u/g dd. 1974: geoph, geochem. 1981: dd.	12,000 at 0.37 oz/t Au 1949 (Ont AR 1950, pt 6, p 125)	In 1942 and 1948, 1,417 ozs Au and 36 ozs Ag were recovered from 6,634 tons milled.
ONT-282	MAGNET CONSOLIDATED MINE Roxmark ML 42 E/11 49°41'36" 87°03'12"	Two Au bearing zones consisting of lenticular qtz veins and stringers in greywacke. Main zone developed along a length of 1,300'.	1934-36: trenching. 1936-40: 1,115' shaft, dd. 1938-52: prod 150,089 oz Au, 16,879 oz Ag. 1981: geochem, dd. 1982: VLF, Mag surveys, dd.	(i) Above 14 level: 30,000 at 0.29 oz/t Au (ii) 14 to 17 Level: 75,000 at 0.25 oz/t Au 1981 (NM 30/04/81)	
ONT-283	McLELLAN GOLD MINE J E Connors 42 E/11 49°41'24" 87°01'45"	Au in shear zones in greywackes and slates with iron formation.	1933-36: trenching, dd. 1939: dd. 1941: 327' shaft. 1980-81: reassessment, dd, geoph. 1982: dd.	850 T/VF at 0.17 oz/t Au 1937 (NM 22/10/81) or c 100,000 at 0.15 oz/t Au 1981 (Lynx Can Explo L, TSE LS 2806, 15/01/81)	Lynx Canada Explo L, Cdn Reynolds Mtls CL, Roxmark ML held the property in 1982. Lynx 1981 reassessment done on work of previous operators.
ONT-284	BROADVIEW Broadview GML (in 1957) 42 E/12 49°34'47" 87°58'25"	Vein, 500' long x 8.7' wide, in metavolcanics.	1935-50: trenching, dd, mag survey.	500' x 8.69' at $14.85/t Au 1936 (CMH 1937, p 43)	
ONT-285	COLEMAN Cherbourg GML (in 1945) 42 E/12 49°34'47" 87°51'18"	Au-bearing qtz calcite vein in sediments.	1935: stripping, trenching. 1944: dd.	150' x 4' at $12/t Au 1944 (NM 12/04/45)	
ONT-286	NEZAH Craskie ML 42 E/12 49°39' 87°40'	Low to medium grade gold ore shoots.	1951-52: trenching, dd. 1973-74: geoph and geochem surveys, dd. 1979: evaluation study.	dd-ind: 430' x 6.6' at 0.17 oz/t Au; 350' x 6.9' at 0.19 oz/t Au; 150' x 6.8' at 0.18 oz/t Au; and 200' x 4.8' at 0.25 oz/t Au 1952 (Tombill GML, 1952 AR)	Craskie reviewed its property in early 1980 but determined that further work was not called for at this time.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-287	OREMOND Inco Mtls C 42 E/12 49°41'15" 87°37'38"	Qtz-calcite fractures with Au and sulphs in Precambrian iron fm. Au zone is 150' x 7'.	c 1936: discovery. 1936-37: dd, shaft to 300', with levels at 150' and 275'. 1963-69: stripping, pitting, tr, dd. c 1977: dd. 1981: sampling. 1982: mapping and sampling.	ind: 91,000 mt at 0.25 oz/t Au c 1977 (OGS, MP 101, p 64, 1982)	Optioned 1982 by Lynx-Can Expls L.
ONT-288	STURGEON RIVER Phoenix GML 42 E/12 49°45'00" 87°46'20"	Fissure type qtz veins in volcanics bear py, cp, sph, Au and Au telluride.	1934-42: surface work, dd, shaft sunk to 2,108' with 13 levels, 72,742 oz Au and 15,922 ozs Ag recovered from 143,842 tons milled on site bt 1937-42. 1955-56: mill dismantled and sold. 1972: EM and mag surveys.	'ore in sight': 81,806 at 0.405 oz/t Au plus poss: 40,000 at 0.40 oz/t Au 1942 (G H Gibbs for Jupiter Mnrls Inc, 1972)	The mine shut down due to labour shortage in October 1942. Reserves were sufficient to operate a further four years.
ONT-289	CHELLEW (COWAN) Northern Conc L 42 E/13 49°47'55" 87°48'55"	Qtz veins carrying cp, po, and native gold cuts Archean metavolcanics.	1946-47: intermittent work, dd, 170 t bulk sample, 50' shaft. 1977: high grade mining. 1981: high grade mining. 1982: 800 t milled, stripping, tr.	152' x 1.75' at 5.8 oz/t Au, 3 oz/t Ag 1966 (NM 06/07/67)	Ore milled at Northern Concentrators mill at Thunder Bay gave returns avg 0.265 oz/t. Great Western Petroleum Corp and Anglo Cdn Mng Corp have optioned from Northern.
ONT-290	GREENOAKS W Miron 42 E/13 49°48'30" 87°45'42"	Gold bearing qtz veins.	1947-60: stripping, tr, dd, geoph. 1981: 63.5 mt mined. 1982: 1,400 t mined, stripping, tr.	dd-ind: 135' x 5.24' at 0.563 oz/t Au to a depth of 50' 1947 (J R Bridger 30/06/60 in Prospectus, Greenoaks ML, 10/10/60)	Ore processed at Northern Conc L mill at Thunder Bay.
ONT-291	JACOBUS Chesterville ML (in 1976) 42 E/13 49°49'37" 87°44'05"	Mineralized Archean diorite and gabbro sill complex intruding volcanics. Ni-Cu assays.	1957: trenching, mag and EM surveys, 46 ddhs. 1968-69: dd, EM and mag surveys. 1971-72: further dd. 1974: property evaluation.	ind: 937,538 at 0.41% Ni, 0.42% Cu 1969 (NM 22/07/71)	The deposit is open down plunge. A decline was planned but the companies went out of business.

ONT-292	BURROWS LAKE Dave Petrunka 42 E/15 49°55'15" 86°46'	Mo in qtz veins in Precambrian porphyritic monzonite, gneissic granite and pegmatite. One zone 6 x 60 m with py, cp.	c 1918: discovery. 1940: tr, sampling, dd. 1964-65: dd, SP. 1980: bulk sampling, 1,360 mt. 1982: 800 mt milled.	17,780 mt containing poss 340,829 kg MoS_2 c 1968 (OGS, MP 101, p 62, 1982)	Low grade and scattered Mo zones.
ONT-293	MAYLAC MINE Gulch Res L 42 E/15 49°45'48" 86°57'55"	Auriferous veins in shear zones in intermed to mafic meta-volcanics with py, gnt, sph.	1934: discovery. 1938: 250' shaft. 1939: dd. 1946: shaft to 450', dd, prod 1,518 t at 0.52 oz/t Au. 1958: dewatered, dd. 1980: review.	broken and in place: 11,080 at 0.7794 oz/t Au (Hutchison Lake GML, Analysis 05/10/38)	High grade but erratic gold ore.
ONT-294	WILLECHO Willroy ML 42 F/4 49°10'30" 85°53'00"	Three zones of sulphide mineralization in gneiss with iron fm.	1953-77: geol, EM and airborne mag surveys, dd, shaft sunk 1,361' with 8 levels, decline drive and ramp established 5 more levels, prod 1965-77.	combined with Willroy's.	Rising operating costs, higher freight rates and smelter costs combined with low metal prices made the mine uneconomic.
ONT-295	WILLROY Willroy ML 42 F/4 49°09'26" 85°48'30"	Massive to disseminated sulphides in gneiss with iron fms.	1953-77: staked, geol geoph, dd, no 1 shaft to 2,855' with 16 levels, No 2 shaft to 500', prod 1957-75 of 8,730,465 tons of Zn, Cu, Pb, Ag, Au, Cd and Bi ore.	759,448 at 4.42% Zn, 0.28% Cu, 1.47 oz/t Ag Dec 31, 1976 (Willroy ML, 1976 AR)	Resources given include Willecho and Big Name Creek. Mine shut down as uneconomic to operate.
ONT-296	CARGILL Intl Mnrls & Chem Corp (Can) L 42 G/7 49°18' 82°49'	Residual type phosphate deposit is confined mainly to an area over the Proterozoic Cargill carbonatite-alkalic complex.	1955-57: geol reconnaissance. 1975-76: 50,000' dd, testing by reverse circulation drill. 1978: feasibility study. 1980: testing, sampling, market and transportation studies. 1982: feasibility studies.	dd-ind: 62,500,000 at 20% P_2O_5 1976 (Intl Mnrls & Chem Corp (Can) L, 1976 10-K)	Sherritt Gordon ML obtained a 3 yr option to purchase mnrl rights in 1979.
ONT-297	ARGOR Esso Res Can L (60%) Morrison Petroleums L (28.9%) Canray Res L (7.5%) Argor Expls L (3.6%) 42 I/15 50°50' 80°35'	Pyrochlore mineralization 1,400' long, from 530'-650' wide and dd-ind to 450' depth within a granulite complex.	1966-69: 125' test shaft, bulk sample, feasibility study by joint venture - Esso, Cons Morrison Expls L, Goldray ML and Argor Expls L 1980: feasibility studies.	ind: 62,500,000 at 0.52% Cb_2O_5 or 23,000,000 at 0.52% Cb_2O_5 o/p mineable to 400' depth 1966 (FP Surv Ms 1969, p 177)	Feasibility study completed in 1969 indicated a return on capital investment below that required to justify prod plans.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-298	HARTISON LAKE Camchib Res Inc New Venture Equities 42 J/6 50°19' 83°24'	Precambrian carbonatite plug. Mineralization is phosphate residuum type. A 'blanket' residuum layer is also present.	1965-66: 1 ddh. 1980-81: 40 ddh, discovery.	poss: 140 mill mt at 20% P_2O_5, 0.35% Cb_2O_5, also several mill mt at 0.5% Cb_2O_5 and rare earths 1982 (NM 13/01/83)	Shell Can Res L did discovery drilling.
ONT-299	CARNDESSON-ONAMAN LAKE Onaman Joint Venture 42 L/4 50°02'02" 87°38'24"	Sulphide replacements within sheared contact zones bt greenstone and narrow porphyry dykes.	1949-54: trenching, dd. 1971-72: geol, geochem and geoph surveys, dd. 1976-present: prospecting, trenching.	ind: 320' x 5.9' at 9 oz/t Ag, 1.58% Zn, 1.14% Pb, 0.089 oz/t Au or 175 T/VF in No 5 vein 1949 (NM 23/06/49)	Pb and Zn values cut to 80% recovery. Wayfair Expls L carries 20% interest.
ONT-300	HEADVUE Onaman Joint Venture 42 L/4 50°01'14" 87°39'38"	Tuffaceous sediments are cut by parallel shear zones which contain several qtz-sph-gal lenticular bodies.	1950-52: ground EM, 29,951' dd. 1971-72: geol, geochem and geoph surveys, dd. 1973: IP survey, dd.	ind: 250,000 at 4.6% Zn, 1.45 oz/t Ag, $1/t Pb-Au plus poss: 49,600 Zn-Ag, grade unstated 1952 (Ont OFR 5197, p 85, 1976)	Pb at 10¢/lb, Au at $35/oz. Deeper drilling by Noranda in 1974 suggested an additional 150,000 tons are available.
ONT-301	LYNX CANADA-ONAMAN LAKE Onaman Joint Venture 42 L/4 50°01'04" 87°38'57"	Stringer zones in Archean mafic to intermediate volcanics.	1950-52: prospecting. 1971-78: geol, geochem, IP, EM, and mag surveys, dd, trenching.	(i) No 2 zone: 200,000-300,000 at 2% Cu, 1 oz/t Ag 1977 (NM 07/06/79) (ii) No 1 zone: 50,000 at 3.6% Cu, 2.9 oz/t Ag, 0.07 oz/t Au 1976 (TSE LS 2806, Lynx-Can Expls L, 1981)	Onaman Joint Venture is comprised of Lynx-Can Expls L (37.5%), Dejour ML (37.5%), and Reynolds Mtls CL (25%).
ONT-302	PAULPIC Paulpic GML (in 1976) 42 L/4 50°14'12" 87°39'35"	Narrow auriferous qtz veins within mafic volcanics.	1920's: trenching, dd. 1939: prospecting.	33,694 at 0.23 oz/t Au over 3.2' c 1939 (Paulpic GML 01/11/69 prospectus)	
ONT-303	TASHOTA NIPIGON Tashota-Nipigon ML 42 L/4 50°02'50" 87°35'15"	Auriferous qtz in shear zones in metavolcanics Ag, Cu, Zn, Pb and Bi occur also.	1923: discovery. 1927-29: sampling and shaft sinking. 1935-38: 12,355.7 oz Au, 14,527 oz Ag and 360,306 lbs Cu recovered from 51,250 tons milled to 625' level. 1967: dd and shaft dewatered to 625' level. 1979: feasibility study. 1980: dd. 1982: dd, geoph.	50,000 at 0.06 to 0.08 oz/t Au in tailings 1979 (Ont MP 91, p 49, 1980)	Lynx Can Expls L did 1979 feasibility study.

ONT-304	JUNEAU LAKE Intl Mogul ML and North Coldstream ML (in 1970) 42 L/5 50°22'40" 87°56'55"	Po, py, cp, pn, violarite and mag in zone localized along a siliceous tuffaceous metasediment horizon within volcanics.	pre-1967: airborne mag and EM. 1967-69: ground mag and EM, dd, metallurgical tests.	ind: 2,200,000 at 0.87% Ni, 0.59% Cu (undil) 1969 (Intl Mogul ML, 1969 AR)	Low nickel recovery ind by metallurgical tests led to a discontinuation of exploration.
ONT-305	KENDON Giant Gripp M Inc 42 L/5 50°25'20" 87°35'13"	Sulphide mineralization probably epigenetic intra-volcanic but remobilized and concentrated by later folding.	1954-55: discovery. 1961-70: EM, mag and SP survey, extensive dd, feasibility study. 1973, 1976-78: IP, geol mapping, dd. 1982: dd, 10,000'.	(i) NWT: dd-ind: 2.2 mill at 1.22% Cu, 4.20% Zn, 2.45 oz Ag, 0.023 oz Au/t 1980 (NM 10/04/80) (ii) Kendon: 267,000 ind at 1.45% Cu, 4.76% Zn 1969 (Ont Map p 561, Marginal Notes)	Drilling in 1977-78 is reported to have significantly increased the resource estimate (NM 04/05/78). Corp Falconbridge Copper optioned property in 1981.
ONT-306	LOUANNA Cons Louanna GML 42 L/6 50°27' 87°05'	Au in mineralized zone in sheared tuffs and qtz porphyry. Sulphides incl asp, py, marcasite, po, cp and sph.	1935-36: staked, dd. 1946-50: dd, mng plant erected; shaft sunk to 347', u/g dd, crosscutting, drifting. 1959-60: dd, mag survey. 1964-65: dd, u/g lateral advances, raising. 1972-74: shaft deepened to 450', u/g dd. 1979: dewatered shaft, u/g sampling and mapping, feasibility study. 1982: prod Feb. mid Oct, 6,534 t.	est: 113,128 at 0.352 oz/t Au 1972 plus new zone 7,000 t containing 2,000 oz Au 1982 (OGS, MP 107, p 67, 1982)	Operated by Graham Mng L. Both zones are open along strike and at depth.
ONT-307	RESERVE LAKE Fort Hope Indian Band 42 M/12 51°33'30" 87°48'00"	Series of Au-bearing qtz veins within sheared qtz-feldspar porphyry. Mnrls present are py, po, cp, Ag and gal.	1960-63: prospecting, mag survey, dd, stripping.	ind: 170,000 at 0.28 oz/t Au to 300' plus additional tonnages to 700' 1963 (Zulapa Mng Corp L, 1970 AR)	Shaft sinking was recommended in 1963 but never started. Under 1975 conditions, the property did not warrant total dev.
ONT-308	NORTON LAKE Wasabi Res L 42 M/15 51°55' 87°20'	Deposit lies in mafic to intermediate volc and seds in Uchi Belt, flanked by acid intrusives.	1970: airborne geoph. 1980: ground geoph, dd. 1981: dd 60 holes, 22,923'. 1983: dd.	dd-ind: 1,041,130 t at 0.72% Ni, 0.56% Cu to 294' 1980 (NM 03/12/81)	Low Pt values. Res to 500', below is open and untested along strike and plunge. Joint venture with Kerr Addison ML.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-309	GREAT LAKES NICKEL Great Lakes Nickel L 52 A/4 48°04'40" 89°37'25"	Zoned, sill-like mass of gabbro and anorthositic gabbro. Middle zone of N arm of structure is anorthositic olivine gabbro with syngenetic sulphides (pn, po, cp) and disseminated chromium spinel. Lower chill zone gabbro has disseminated sulphide and massive po stringers.	1952-57: surface work, dd. 1964-68: dd, adit. 1970: feasibility study. 1972-74: feasibility study, 2,300 ton bulk sample sent to Sweden, mine site preparation started then cancelled, mill equipment put into storage. 1977: update of feasibility study.	ind: 45,600,000 at 0.344% Cu, 0.183% Ni plus values in Pt and Pd 1974 (Great Lakes Nickel L, 1976 AR)	Maintained on a stand-by basis. Boliden of Sweden currently carrying on research for new mining methods and treatment techniques, maintains on standby basis.
ONT-310	SILVER MOUNTAIN McWilliams Beardmore ML (in 1965) 52 A/4 48°15'00" 89°52'02"	Argentite, native Ag in calcite-qtz veins cutting diabase and shales.	1885-1911: shafts, 20 stamp mill, more than 770,000 ozs Ag prod. 1924-27: 6,000 tons of calcite material mined. 1947-55: dd, workings partially dewatered.	ind: 60,000 at 5.0 oz/t Ag, 12.0% Fsp 1954 (NM 28/10/54)	In 1949 one estimate was 250,000 at "mineable grade" Ag, Zn, Pb and calcium fluoride.
ONT-311	SILVER ISLET Q C Expls L 52 A/7 48°19'15" 88°48'50"	Ag in qtz-dolomite vein within a strong fault zone crossing a diabase dyke.	1868-84: discovery, shaft to 1,160', winze to 1,230', prod of approx 2,850,000 ozs Ag. 1919-22: partially dewatered, sampling, crosscut driven, small prod. 1975-78: geochem, sampling of dump, some dd.	ind: 115,000 at 40 oz/t Ag in dump 1975 (Ont MP 71, p 44, 1971) plus 300,000 ozs Ag in roof pillar 1921 (Ont MRC 10, p 74, 1968) or 1,050,000 oz Ag min (NM 18/10/79) plus 750,000 ozs Ag in support pillars and stopes 1982 (NM 10/02/83)	With financial aid from Mertec Inc a 75 tpd mill has been installed at CNR docks in Thunder Bay to process 10,000 at 6 oz/t Ag stockpile in early 1983.
ONT-312	ANDERSON LAKE Briar Court ML (in 1968) 52 A/1C 48°40'30" 88°45'45"	Most mo occurs as aggregates in or near qtz lenses within a pegmatite. Mo distribution is erratic over the 2,000' length of the pegmatite.	1918: trenching. 1938: stripping, trenching, 25 tons avg 0.49% MoS_2 shipped. 1958-60: stripping, trenching, 18 ddhs (2,114'). 1966-68: mapping, trenching, dd.	ind: 1,346,000 Mo, grade unstated 1959 (W N Ingham 16/06/59 in Prospectus, Lindsay Expls L, 19/06/59)	Overall grade not available.
ONT-313	DORION MINE Andowan ML (in 1972) 52 A/15 48°50'05" 88°40'20"	Gal, sph in qtz breccia filling fault zone between Archean granite and sediments.	1903: pitting, shaft to 95', 350 tons of Pb concentrate produced. 1929: sampling. 1948: chip and channel sampling.	max of 35,000 at 10% Pb 1948 (D H Yardley 18/02/57 in Prospectus, Andowan ML, 30/03/57)	Zone has been traced for three-quarters of a mile and is 1-4' wide. Very limited depth to zone.

ONT-314	LAC LA CROIX Intl Lithium Mng Corp L (in 1976) 52 B/5 48°21'40" 91°59'50"	A coarse to very coarse-grained pegmatite dyke cuts Archean metasediments. Constituent mnrls are albite, qtz, spodumene, muscovite and garnet.	1955-56: trenching, dd totalling 37,178'.	1,500,000 at 1.20% Li_2O 1956 (GSC EGR 21, p 66, 1965)	Intl Lithium's name changed in 1981 to Petroinc Res L and to Barrick Res Corp in 1983.
ONT-315	GREEN COAST Green Coast Res L 52 B/9 48°38'35" 90°26'02"	Disseminated in massive py, po, cp and sph in silicified Keewatin greenstones. West section about 150' long x 22' wide and 600' deep.	1929-30: surface work, dd. 1943, 1948-49: trenching, SP and mag surveys, 33 ddhs. 1953-56: EM and mag surveys, 24,845' in 33 ddhs.	dd-ind: 200,000 at 1.25% Cu in west section 1956 (Ont MRC 2, p 46, 1957)	The property, although idle since 1956, has been held in good standing.
ONT-316	SMITH-PAROZANIN R V Whiteside (in 1964) 52 B/9 48°40' 90°02.1'	Irregular qtz veins in metavolcanics with Zn, Cu, Ag.	1953-54: stripping. 1954: dd. 1955: EM and Mag surveys, dd. 1959: SP survey, dd. 1960: dd.	spec: 7,500' at 0.72 and 8,500 at 0.21 oz/t Au in 2 zones 1981 (OGS OFR 5332, 1981)	Some potential for decline operation.
ONT-317	SWAMP (MUD) RIVER Band-Ore GML 52 B/9 48°37'55" 90°06'40"	Qtz stringers with py, cp, sph and Au in shear zones within feldspar porphyry.	1936-40: discovery, 21 pits, shallow dd. 1944-51: dd. 1975: feasibility study, bulk sampling. 1981: IP, mag, geol surveys, dd. 1982: dd, geoph.	ind: 687,499 at 0.265 oz/t Au to 500' or 471,518 at 0.303 oz/t to 350' 1947 (NM 17/10/74)	Mattagami Lake Expl L optioned property in 1980. Dd by mid-1982 has extended the length of the zone from 985' to 1,500'.
ONT-318	ELIZABETH MINE Fern Elizabeth G Expl L (in 1980) 52 B/13 48°47'48" 91°43'54"	Au bearing qtz-carbonate veins along contact of Dashwa Lake granite batholith and Steep Rock Lake metavolcanic belt.	1900-02: shafts to 28 m and 72 m, dd. 1911-14: u/g dev. 1935-36: dewatering, surface dd, trenching. 1979: geol, trenching. 1982: dd.	poss: 750 at 0.41 oz/t Au, spec: 7,300 at 0.15, 10,000 at 0.20 (dump) and 10,000 at 0.10 oz/t Au (tailings) 1981 (OGS OFR 5332, 1981)	Some potential for small scale, narrow open cut operation. Tailings would be recoverable by heap leaching. Camflo ML have option, did 1982 dd.
ONT-319	ATIKOKAN IRON Atikokan ML (in 1979) 52 B/14 48°47'07" 91°16'35"	Mag, py and po within mafic dykes along the Quetico Fault. Mineralized zone occurs in larger iron-bearing zone.	1882: discovery. 1887-1906: surface stripping, tunnelling, dd. 1907-12: o/p mng, c 96,000 lt iron ore mined. 1966: sampling programme. 1969-72: airborne and ground geoph surveys, dd, metallurgical tests by Paulpic GML.	dd-ind: 12,000,000 lt at 35% Fe, c 0.40% Cu, some Co and Ni 1972 (NM 26/10/72)	Atikokan sold its mng property c 1979 to private individuals.
ONT-320	HAMMOND REEF 52 B/14" 48°56'30" 91°26'54"	Qtz lenses in shear zone in troudjenite.	1895: discovery. 1896-98: trenching, 3 shafts, 10 stamp mill. 1899-1900: quarry, 60' shaft, closed.	spec: 1,600,000 at 0.20 oz/t Au to 100' 1981 (OGS OFR 5332, 1981)	Examined in 1937 by Noranda and 1939 by Sylvanite GML. Held in 1982 by Falconbridge L.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-321	SAWBILL LAKE J P Manley 52 B/14 48°57' 91°25.5'	Qtz veins with py, cp in granite.	1895-97: 230' shaft, 10 stamp mill. 1897-99: prod 677 oz Au from 2,146 tons milled. 1936-41: shaft dewatered, dd, mill, minor prod.	spec: 66,600 at 0.20 and 46,600 at 0.05 oz/t Au 1981 (OGS OFR 5332, 1981)	Good prospect.
ONT-322	SAPAWE MINE (ATIKO) Atiko GM Corp 52 B/14 48°47'00" 91°21'30"	A series of 'en echelon' veins and lenses of Au-bearing qtz in qtz porphyry.	c 1929: expl. 1960-66: dd, shaft, 100 tpd mill. 1964-66: shaft deepened to 1,016', 33,013 tons milled. 1974-79: mag, mapping, rehabilitated some buildings. 1980: dewatering shaft. 1982: mill study.	prov: 34,181 at 0.31 and prob: 204,000 at 0.30 oz/t Au 1981 (OGS OFR 5332, 1981)	Atiko has recently been developing the property. Study done by Sherritt Gordon ML.
ONT-323	SUNBEAM MINE 52 B/14 48°52' 91°18'	Qtz-calcite vein in granite schist.	1898: discovery, 71' shaft. 1899-1902: shaft to 137'. 1904: minor prod: 650 t at 0.42 oz/t Au. 1979: geol survey. 1982: dd.	prob: 4,410 at 0.37 oz/t Au 1981 (OGS OFR 5332, 1981)	Nahanni ML optioned 800 acre property surrounding the lease of the Sunbeam Mine in 1979 from Surveymin L.
ONT-324	TYRRELL LAKE M Wichesuk 52 B/14 48°49'42" 91°24'52"	Auriferous qtz vein and stringers between granite and sericite schist. Orebody 700' along strike to 650' depth.	1878-1902: discovery, main shaft sunk to 192' with 2 levels and drifting, 2 other shafts 140' and 200', small prod. 1945-46: surface work, dd. 1961: dd, stripping, trenching, channel sampling. 1982: mag, EM, rad and geol surveys.	poss: 75,000 at 0.35, 37,500 at 0.40 and 3,000 at 0.30 oz/t Au 1981 (OGSC OFR 5332, 1981) or 100,000 at 0.45 oz/t Au 1982 (Asamera Inc 1981 AR)	Good prospect for small tonnage and above average grade. Asamera Inc optioned in 1981 and did 1982 work.
ONT-325	WISA LAKE Norlex ML (in 1967) 52 C/8 48°25' 92°15'	Several spodumene-bearing dykes cutting Archean metasediments.	1956: 5,620' of "A" core dd and 431' of packsack dd.	ind: 330,000 at 1.15% Li_2O 1956 (NM 11/08/57)	Still open to east and best values obtained in east; tonnage indicated in several structures.
ONT-326	FERGUSON R Cone 52 C/10 48°44.4' 92°36.6'	Three qtz veins in a shear zone in qtz porphyry.	Trenching, 146', 107', 110' shafts, sampling. No prod figures available.	poss: 40,000 at 0.06 (in tailings) and spec: 3,400 at 0.38 oz/t Au 1981 (OGS OFR 5332, 1981)	Sherritt Gordon ML holds property in 1982.

ONT-327	FOLEY MINE R & K Cone 52 C/10 48°41'45" 92°38'42"	Felsic intrusives enclose auriferous veins.	1893-1902: surface cutting, pitting, North shaft to 420' with 5 levels and drifting, 40' pits, 20 stamp mill, small prod, South shaft to 200', u/g dev. 1920-37: u/g dev incl winze, drifting, crosscutting and dd in North shaft, South shaft dewatered, 2 stamp mill, prod. 1980: dd.	ind: 450,000 at 0.45 oz/t Au 1979 (NM 12/06/80) or poss: 400,000 at 0.50 oz/t Au and spec 400,000 at 0.50 oz/t Au 1981 (OGS OFR 5332, 1981)	Resources remained in North shaft after total recovery of 855 ozs Au and 149 ozs Ag from 5,568 tons milled. Optioned in 1980 by Corporate Oil & Gas L (51%), Musto Expl L (25%), Seaforth ML (24%). Sherritt Gordon ML holds property in 1982.
ONT-328	GOLDEN STAR Ciglen Inv L (in 1978) 52 C/10 48°44'50" 92°37'10"	Au-bearing qtz veins found within a felsite dyke that crosscuts metavolcanic rocks.	1894: discovery. 1887-1901: 2 shafts with u/g dev, small prod. 1927-28: 5 tpd mill increased to 25 tpd. 1934: mine dewatered and sampled. 1936-42: intermittent mng and treatment of tailings. 1974: dewatered workings, u/g expl and dd.	in place: 20,000 at $15/t Au plus in dump: 35,000 at $9/ton Au 1942 (FP Surv Ms 1942-43, p 145) or 20,000 at 0.42 oz/t Au 1981 (OGS OFR 5332, 1981)	Up to 1941, 10,758 ozs of gold and 34 ozs of silver were recovered from 19,345 tons of ore milled.
ONT-329	LUCKY COON W.J. Lind (in 1979) 52 C/10 48°43'55" 92°37'25"	Auriferous veins cutting felsic intrusives.	1894: discovery, 4 shafts. 1899: small prod. 1937: dewatered, expl program.	spec: 4,000 at 1.00 oz/t Au 1981 (OGS OFR 5332, 1981)	Data is sparse but nature and size of veins makes property warrant exploration. Sherritt Gordon ML holds property in 1982.
ONT-330	RICHMORE Corporate Oil & Gas L (in 1980) 52 C/10 48°41'12" 92°40'55"	Veins in qtz porphyry.	1934: dd.	250' x 2.9' at 0.49 oz/t Au or 300' x 4.0' at 0.29 oz/t Au 1980 (Corp Oil & Gas Pros. 14/07/80)	Drilling was not so encouraging, Sherritt Gordon ML holds property in 1982.
ONT-331	GRASSY PORTAGE BAY Nor-Norock Mng CL 52 C/11 48°42'04" 93°03'45"	Cp and po disseminated through hornblende gabbro sill close to its contact with mafic volcanics.	1958-59: discovery, geol and geoph surveys, dd. 1965-71: dd, mapping. 1972-73: 200' shaft sunk and 700' drifting.	ind: 265,230 at 2.08% Cu, (1.3% Cu cut-off) 1971 (NM 03/02/72) or 1,000,000 at 1.5-2.0% Cu (CMH 1981-82, p 260)	The deposit is open along strike and at depth. Co plans dd, u/g dev.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-332	MIRONSKY A Mironsky (in 1970) 52 C/11 48°42'08" 93°01'40"	Cp, py and po in biotite-feldspar-qtz schist of sedimentary origin. Cp decreases with depth as py and po increase.	1963: discovery, 3,030' in 8 ddhs, detail geol map, trenching, geoph survey.	inf: 300,000 at 0.8% Cu 1963 (Ont GR 115, p 59, 1974)	The mineralized body is thought to be 400' long x 36' wide x 300' down dip.
ONT-333	EMO Long Lac Mnrl Expl L (in 1969) 52 C/12 48°39'18" 93°56'45"	Local disseminations to massive po, pn, py and cp with minor violarite, sph and mag in norite along the south contact of the intrusion.	1952-53: discovery, airborne and ground mag and EM, geochem survey, 47 ddhs. 1955-57: 50,000' dd, bulk samples. 1968-69: bulk samples, metallurgical tests.	ind: 3,000,000 Ni-Cu-Co, grade unstated plus pot: 7,000,000 Ni-Cu-Co, grade unstated 1956 (NM 25/10/56)	Metallurgical tests on low grade mineralized zone indicated the concentrate was not economically feasible due to excess po.
ONT-334	OLIVE (PRESTON) A Lafreniere R Pitkanen 52 C/15 48°46'40" 92°43'30"	Auriferous qtz vein, 1/2-2' wide in qtzite.	1896-1900: discovery, 2 ton and 25 ton stamp mills erected, prod. 1935-37: dewatered and sampled workings, small prod. 1941-42: No 1 shaft to 251' with 3 levels, No 2 shaft to 60' connected to No 1, 3 other shallow shafts, u/g dev in No 1, prod 3,572 ozs Au in 1942. 1963-64: dd. 1981-82: strip, tr, sampling.	meas: 4,877 at $24.89/t Au (c 0.65 oz/t Au) 1942 (L Tupper Porter Jr 03/11/58 in Prospectus, Olympus ML, 29/07/60) or poss: 7,000 at 0.05 and spec: 6,000 at 0.37 oz/t Au 1981 (OGS OFR 5332, 1981)	Mine shut down due to fire which destroyed the mill in 1942. Optioned to Raven River Res Corp.
ONT-335	SILVER BELLE (REGINA) Alchib Dev L (in 1969) 52 E/8 49°23'24" 94°02'12"	Eight qtz veins occupy shear zone in sediments intruded by qtz diorite.	1894: discovery. 1895-1905: 5 shafts, prod 36,828 at 0.21 oz/t Au and 0.04 oz/t Ag 1940-41: milled 3,110 t. 1942: 5,000 t tailings treated. 1973: dd.	poss: 6,000 at 0.41 and 8,000 at 0.15, spec: 3,600 at 0.57, 4,800 at 0.43 and 11,250 at 0.40 oz/t Au 1981 (OGS OFR 5332, 1981)	In 1973, Zenmac Mtl ML earned 25% interest in the property by performing a drilling program.
ONT-336	PINE PORTAGE President ML 52 E/9 49°42'36" 94°21'36"	Qtz veins with VG, py, cp, asp, native Ag, Cu in hornblende schist in mafic volcanics.	Pre-1900: mill in place, 100' shaft. 1932: sampling and shaft dewatered. 1970: dd. 1981: sampling, dd.	poss: 2,100 at 2.05 oz/t Au, potential orebody 100' x 7' to 35' 1981 (OGS OFR 5332, 1981)	Currently under exploration by President ML. (NM 15/01/81)

ONT-337	AMBROSE Lake Hill GML (in 1935) 52 E/10 49°31'12" 94°30'36"	Qtz veins assoc with qtz feldspar porphyry intruding schistose basalt/tuff.	1898: 40' shaft and adit. 1937: 3,509' dd. 1965: 1,206' dd. 1974: 1,762' dd.	spec: 2,600 at 0.71 oz/t Au in 160' x 5' to 40' 1981 (OGS OFR 5332, 1981)	Vein No. 3; definitely mineable by o/p to 40'.
ONT-338	BLINDFOLD (GOLDEN GATE MINE) 52 E/10 49°38'24" 94°16'48"	Qtz veins in altered volcanics.	1910: 85' shaft.	Min. dimension: 50' x 4' to 100', spec: 1,600 at 0.89 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-339	CEDAR ISLAND (CORNUCOPIA MINE) Denison ML (in 1980) 52 E/10 49°36' 94°58'12"	Two qtz veins in greenstone cut by qtz porphyry, contains asp.	1899: 869' dd, prod. 1929-36: 2 shafts 165' incl. and 646' dd, total prod: 4,941 oz Au and 3,884 oz Ag from 17,050 t.	prob: 28,000 at 0.50 oz/t Au 1981 (OGS OFR 5332, 1981)	Probable ore from 1936 longitudinal section. Geol plans and assays are lacking. Also c 15,000 tons at unstated grade available from tailings.
ONT-340	GOLD MOUNTAIN 52 E/10 49°33' 94°39'	Irregular qtz stringer stockwork in sheared qtz porphyry close to contact with rhyolite, tuff, felsite.	1895-99: trenching, 30' shaft. 1935: sampling.	Spec: 100,000 at 0.04 oz/t Au 1981 (OS OFR 5332, 1981)	No information except dump samples. O/p area 350' x 30' to 125'.
ONT-341	HOPKINS-HEINZMAN 52 E/10 49°34'12" 94°59'24"	Two qtz veins in granite porphyry cutting metavolcanics, with cp, asp, sph, po and gnt.	Test pits and 473' dd.	Spec: 11,000 at 0.23 oz/t Au 1981 (OGS OFR 5332, 1981)	Nickel and zinc assays reported.
ONT-342	KENRICIA MINE Aumac Expls L (in 1974) 52 E/10 49°43'12" 94°40'12"	Two qtz veins in agglomerate and basalt flows intruded by qtz porphyry dikes, with py, cp and gnt	1935: trenching, 530' shaft. 1939-40: dd, prod 2,533 oz Au and 521 oz Ag from 22,344 t.	(i) Vein 1: 10,900 poss at 0.68 oz/t Au (ii) Vein 3: 28,125 poss at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	Estimates are based on assumption that ore grades persist in depth.
ONT-343	MIKADO MINE Denison ML 52 E/10 49°34'48" 94°57'36"	Four qtz veins containing VG with py, cp, mo, bi in qtz feldspar porphyry intruding basalt and tuff schist.	1896-1902: prod, 4 shafts. 1910-11: prod, dd. 1932: prod; total prod 28,335 oz Au and 41 oz Ag from 57,813 t = 0.49 oz/t Au 1933-34: 2,760' u/g dd.	North Lens: 5,200 poss at 0.56 oz/t Au South Lens: 6,100 poss at 0.69 oz/t Au Tailings: 6,400 spec at 0.09 oz/t Au 1981 (OGS OFR 5332, 1981)	Tailings lie offshore and are amenable to heap leaching.
ONT-344	A-O (PURDEX) Hanson ML (in 1973) 52 E/11 49°42'52" 95°04'42"	Au, py, po and cp in qtz veins within gash fractures in basic lavas and qtz feldspar porphyry. Four zones within 400'.	1952-58: staked, geol mapped, trenching, dd. 1972: dd.	ind: 76,500 at 0.32 oz/t Au in A, B, D and P zones 1958 (Ont GR 41, p 38, 1965)	Results of the 1973 drilling programme were not released.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-345	CAMERON ISLAND Cons Professor ML 52 E/11 49°34'05" 95°02'33"	Gold-bearing qtz veins cut fine grained Keewatin greenstones and coarse amphibolites. The mineralization, high in asp, occurs partially in talc schist.	1887-1900: discovery, stripping, trenching, shaft sinking, u/g work, 18 ton mill test. 1928-29: dd. 1934-36: dd, u/g dev, shipment of 1,190 tons ore. 1950-51: dd, u/g dev. 1965: dd. 1973-74: dewatered shaft, bulk sample, dd, engineering studies. 1980: feasibility study. 1981-82: dd, discovery of East Zone.	(i) Main Zone: 1,200,000 prob & poss at 0.32 oz/t (ii) East Zone: 800,000 poss at 0.33 oz/t Au to 1,000' or (i) and (ii) 2,000,000 at 0.31 oz/t (at 0.15 cut-off, min 4.0' width, 20% dil) to 1,000' 1982 (Cons Professor ML, 1981 AR)	Both zones are open below 1,000'. Selco Inc optioned the property in 1981, dropped in 1982 In 1983, Union Carbide Expl Corp have entered a joint venture with Cons Professor.
ONT-346	ELECTRUM LAKE-CONTACT ZONE Electrum Lake GML (in 1966) 52 E/11 49°42'54" 95°06'14"	Mineralized qtz-carbonate-epidote veins in basaltic lavas and qtz-feldspar porphyry. Au, py, po and cp throughout volcanics and intrusives concentrated in shears.	1953-61: dd, trenching, mag survey.	(i) Zone A: 100' x 5' at 0.34 oz/t Au, 0.14% Cu to 150' (ii) Zone B: 150' x 3' at 0.27 oz/t Au, 1% Cu to 200' (ii) Zone C: 150' x 5' at 0.32 oz/t Au, 0.94% Cu to 100' 1961 ? (Ont GR 41, p 41, 1965)	Financial difficulties forced Electrum Lake GML to suspend operations in 1961.
ONT-347	ELECTRUM LAKE-FAULT ZONE Electrum Lake GML (in 1966) 52 E/11 49°42'50" 95°06'40"	Au, py, po and cp in shear zones within highly altered porphyry.	1953-61: dd, mag survey.	(i) P zone: 100' x 11' at 0.40 oz/t Au to 100' (ii) W zone: 200' x 7' at 0.23 oz/t Au to 65' 1961 ? (Ont GR 41, p 42-43, 1965)	Financial difficulties forced Electrum Lake GML to suspend operations in 1961.
ONT-348	HIGH LAKE PROSPECT Eco Expl CL (in 1981) 52 E/11 49°42'10" 95°06'10"	Three shear zones mineralized with qtz and some mo are enclosed within qtz porphyry. Some Au is also present.	1937-42: trenching, 21 ddhs totalling 3,688'. 1959-61: more than 20,000' of dd. 1971: geochem. 1980: shaft sinking to 735'. 1981: bulk sampling.	ind: 200,000 at 0.63% MoS_2 plus inf: 550,000 to 800' 1962 (NM 11/11/69)	Construction of mill (200 tpd) completed late 1981. Mill test 8,000 t run June and July 1982.
ONT-349	HIGH LAKE-PORPHYRY ZONE Steerola Expls L 52 E/11 49°42'32" 95°06'21"	Cp, py, mo and tourmaline occur in qtz veins within porphyritic granite. The cp and py are disseminated throughout but also concentrated in weak zones.	1952: trenching, bulk sample. 1956-58: 10 ddhs. 1963: dd.	2,000' x 250' at c 0.25-0.50% Cu 1963 (Ont GR 41, p 48, 1965)	The zone was not delimited.
ONT-350	THRASHER (P-218) 52 E/16 49°45'36" 94°25'12"	Qtz stringers and dissem sulphides in sheared metavolcanics.	1898: trenching, 50' shaft. 19 ?: 1,109' dd.	Spec: 4,500 at 0.16 in 160' x 10' to 40' (OGS OFR 5332, 1981)	

ONT-351	FURLONGE LAKE Drummond ML (in 1918) 52 F/3 49°05'30" 93°23'15"	Pyritic replacement masses of lenticular form occur in greenstones near a granite porphyry stock.	1914-18: surface expl.	280,156 at c 40% S after cobbing 1918 (Drummond ML 04/06/18, written commun)	Estimated 'ore in sight' was 373,500 tons in 4 lenses.
ONT-352	GATES LAKE 52 F/3 49°08.4' 93°10.2'	Au in mineralized shear zones with asp and Sb.	1940-42: trenching.	Spec: 37,500 at 0.15 oz/t Au in zone 300' x 10' to 150' 1981 (OGS OFR 5332, 1981)	
ONT-353	KONIGSON 52 F/3 49°23.4' 93°21.6'	Qtz stringers, Au associated with py, cp.	1933-34: trenching, 28' shaft. 1945: 1,122' dd.	Spec: 5,600 at 0.40 oz/t Au in zone 460' x 6' to 25' 1981 (OGS OFR 5332, 1981)	Adjacent Straw Lake Beach vein may dip into this property below 700'.
ONT-354	STRAW LAKE BEACH MINE Havelock Energy & Res Inc 52 F/3 49°08' 93°21.5'	Qtz vein in shear zone in acidic lava and agglomerate.	1933-34: stripping, trenching, pits. 1938-41: shaft, 3,579' dd, prod 11,568 oz Au and 1,049 oz Ag from 33,662 tons milled. 1976: mapping, dd.	prob: 32,000 at 0.20, poss: 32,000 at 0.20 and 30,000 at 0.15 (dump), spec: 48,000 at 0.20 oz/t Au 1981 (OGS OFR 5332, 1981)	Excellent prospect for expl and dev. Tailings may contain unstated tonnage at 0.05 oz/t Au. Holds royalty in 4 pat claims.
ONT-355	CASWELL-WILLIAMS Sherritt Gordon ML 52 F/4 49°15' 93°45'	Mineralized qtz veins in interbanded acid and intermediate volcanics.	1901: discovery. 1902: 2 shafts, 60 tpd mill installed. 1938: dd. 1946: 3 compartment shaft to 140'. 1969: mag and EM surveys. 1980: dd, feasibility study.	Prob: 13,750 at 0.21 and 25,300 at 0.28 oz/t Au, poss: 20,250 at 0.28 oz/t Au, spec: 45,500 at 0.28 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-356	MARTIN, FM 52 F/4 49°12'36" 93°44'24"	Mineralized shear zone containing Au, py and malachite in sericite schist.		Spec: 14,000 at 0.15 oz/t Au in zone 150' x 15' to 75' 1981 (OGS OFR 5332, 1981)	
ONT-357	BAG LAKE 52 F/5 49°19'48" 93°58'12"	Au-Ag bearing sulphides in 4-8' shear zone in intensely altered metabasalt with qtz porphyry dikes.	1961: 1,647' dd, stripping.	Spec: 22,500 at 0.25 oz/t Au in zone 300' x 6' to 150' 1981 (OGS OFR 5332, 1981)	Fair prospect which may be mineable by decline.
ONT-358	BEGGS LAKE (SHINGWAK LAKE) Nuinsco Res L 52 F/5 49°17'24" 93°43'12"	Au, some of it visible, occurs within Archean basic to ultrabasic igneous rocks.	c 1960: Au discovery and 42 ddhs totalling 6,692'. 1972-74: 16 ddhs totalling 4,685'. 1981: dd.	37,800 at 0.29 oz/t Au c 1960 (NM 18/05/72) or 168,000 poss and 72,000 spec at 0.15 oz/t Au (OGS OFR 5332, 1981)	
ONT-359	COMBINED PROSPECT 52 F/5 49°15'36" 94°00'36"	Four veins in pillow lava with qtz porphyry dikes.	1903-05: 101' shaft and 45' shaft. 1904: 37 t milled at 0.33 oz/t.	Spec: 240,000 at 0.30 oz/t Au in 4 veins to 40' 1981 (OGS OFR 5332, 1981)	Good prospect for o/p.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-360	DOGPAW LAKE Cdn Arrow ML 52 F/5 49°19'55" 93°52'25"	Py containing gold in silicified zones in sheared mafic and intermediate metavolcanics.	1959-62: 116 ddhs totalling 18,373'.	ind: 96,650 at 0.43 oz/t Au 1961 (NM 04/05/61)	Noranda held a 5 yr option in 1974-79 dropped. No work planned for 1983.
ONT-361	FLINT LAKE Gunnex L (in 1969) 52 F/5 49°20.4' 93°49.2'	Qtz carbonate veins in fault at contact of metavolcanics and pyroclastics.	1901-02: 2 shafts, adit. 1931: trenching. 1938: dd. 1947: deepened shaft. 1969: EM, mag survey.	spec: 15,750 at 0.08 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-362	FROBISHER 52 F/5 49°20.4' 93°56.4'	Qtz veins and lenses associated with qtz porphyry dikes	1942: staked. 1944: shallow dd.	Prob: 3,500 at 0.27 oz/t Au in 1,300' zone of discontinuous qtz lenses 1981 (OGS OFR 5332, 1981)	Drilling gave high but erratic values. Gold is exclusively in qtz (free milling).
ONT-363	KENBRIDGE (POPULUS LAKE) Kenbridge Nickel ML 52 F/5 49°28'59" 93°38'06"	Sulphide mnrls occur as blebs in amphibolite or as massive fracture fillings in a zone between two vertical fault zones in an almost vertically-plunging mafic breccia plug. Mnrls incl po, pn, cp and py.	1936: staking, trenching. 1937: Coniagas option - dd. 1948-49: Inco option - staking, geol and mag surveys, dd. 1951: property acquired by Falconbridge Nickel ML - more geol and mag surveys, dd. 1955-57: shaft to 2,042', 13 levels, surface and u/g dd, lateral work on two levels, mill test sampling.	ind: 3,271,390 at 1.06% Ni, 0.54% Cu 1957 (Ont GR 111, p 44, 1973)	Idle since 1957. Problem with talc in the ore which hinders the production of a "clean" Ni-Cu concentrate.
ONT-364	MARTIN-KENTY 52 F/5 49°19.8' 93°52.2'	Six qtz veinlets in replaced diorite with py and minor cp.	1900-01: minor trenching. 1944: 9,300' dd.	Spec: 46,500 and 21,000 at 0.15 oz/t Au in 2 zones, 200' x 8' and 180' x 4' both to 350' 1981 (OGS OFR 5332, 1981)	Dilution could be 15-20%.
ONT-365	MAYBRUN-ATIKWA LAKE Cons Maybrun ML leased to Sheridan Geophysics L 52 F/5 49°25'15" 93°39'00"	Cp, py and po mineralization localized in pillow selvedges and along fractures in fine grained basalt. Additional zone of qtz carbonate alteration and stringers in feldspar porphyry.	1951-53: discovery, surface expl, EM and SP surveys, dd. 1955-58: shaft, u/g lateral work and raising, ore est. 1965-66: expl: geoph survey, dd, potential reassessment. 1968-74: dd, o/p prep, mill, prod Aug 73 to Dec 74.	Rosa: poss 179,000 and spec 146,000 at 0.20 oz/t Au and 1.00% Cu Bay: poss 73,500 and spec 73,500 at 0.18 oz/t Au and 0.50% Cu Pot Hole: poss 28,500 and spec 28,500 at 0.14 oz/t Au and 1.41% Cu B Zone: prob 1,000,000, poss 312,500 and spec 312,500 at 0.03 oz/t Au and 1.12% Cu 1981 (OGS OFR 5332, 1981)	Mineable by o/p to 150', then u/g.

ONT-366	MILREE SYNDICATE 52 F/5 49°15' 93°49.8'	Six qtz veins in transverse fractures in diorite.	1944: staked. 1945: dd, trenching.	spec: 32,500 at 0.12 oz/t Au to 150' 1981 (OGS OFR 5332, 1981)	
ONT-367	MONTE CRISTO Lakeport GML 52 F/5 49°18.8' 93°33.7'	Discontinuous qtz lenses in chlorite schist.	1900: trenching, sampling. 1931: sampling. 1937: dd.	spec: 100,000 at 0.15 oz/t Au in zone 400' x 15' to 200' 1981 (OGS OFR 5332, 1981)	Optioned by Nuinsco Res L in 1983, who also acquired 38 claims surrounding the property. Plan geol, geoph in 1983.
ONT-368	SEWELL 52 F/5 49°20.4' 93°51.6'	VG with py in shear zones on the N side of a qtz porphyry dike.	1944: trenching. 1961: 1,282' dd.	Poss: 40,000 at 0.25 and 12,000 at 0.07, in 2 zones 1981 (OGS OFR 5332, 1981)	Zone 2 is poss mineable by o/p. 100' x 40' x 40'.
ONT-369	SYLVANITE (JESSIE LAKE) 52 F/5 49°18' 93°56.4'	Qz veins in shear zone in carbonatized metavolcanics.	1943: 651' dd, 2 adits. 1944: 1,306' dd. 1944-46: prospected.	Prob: 50,000 at 0.10 oz/t Au in 2 zones 1981 (OGS OFR 5332, 1981)	Amenable to heap leaching and perhaps mineable by o/p to 100'. Property includes old Gold Sun prospect.
ONT-370	VIRGINIA 52 F/5 49°25.1' 93°42.4'	Qtz veins in felsic schist with qtz porphyry dikes.	1898: discovery, shaft. 1903: dev work, abandoned.	spec: 830,000 at 0.08 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-371	WAMPUM LAKE 52 F/5 49°17'10" 93°30'30"	Nine qtz veins in 2 parallel zones in schistose metavolcanics.	1940-41: dd, 200' shaft, trenching. 1968: mag and EM surveys.	poss: 15,000 at 0.08 oz/t Au 1981 (OGS OFR 5332, 1981)	Surface dump may be treatable by crushing and heap leaching.
ONT-372	WENSLEY 52 F/5 49°15' 93°49.8'	Qtz veins in diorite and gabbro intrusive into bedded tuffs with later qtz porphyry dikes.	1944: trenching. 1946: 6,000' dd.	Vein 3: spec 320,000 at 0.20 oz/t Au in 1,600' x 6' to 400'. Vein 4: spec 16,200 at 0.15 oz/t Au in 360' x 6' to 90'. Vein 5: spec 61,250 at 0.20 in 700' x 6' to 175' (OGS OFR 1981 5332, 1981)	Good prospect for further exploration and development.
ONT-373	ERRINGTON CLAIMS J Errington 52 F/6 49°18'36" 93°28'48"	Auriferous qtz veins either fill tension fractures in acid dykes or occupy a dyke/basalt contact.	1937: trenching, dd. 1947: 12 ddhs aggregating 5,000'.	ind: 24,000 at 0.73 oz/t Au 1945 (Ont MDC 16, p 16, 1976) or poss: 224,000 at 0.24 oz/t Au 1981 (OGS OFR 5332, 1981)	Ind zone is 450' x 3.5' x 240'.
ONT-374	BEEHIVE 52 F/7 49°16.6' 92°15'	Two qtz veins in shear zone in qtz monzonite.	1897-98: trenching. 1943: sampling, dd.	prob: 126,000 at 0.16 and poss: 7,500 at 0.35 oz/t Au 1981 (OGS OFR 5332, 1981)	Good prospect, mineable by decline. Adjoins Manitou Island property.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-375	BIG MASTER Kenwest ML 52 F/7 49°26'15" 92°41'35"	Auriferous qtz veins in shear zones within volcanics. Ore veins 2,400-5,000' long and 3-9' wide.	1902-06: 3 shafts, u/g drifting and crosscutting, prod. 1916: workings dewatered. 1935-38: dd, No 1 shaft deepened to 350', u/g drifting and dd, trenching. 1940-43: No 1 shaft to 638', u/g dev, mill erected, dd, 14,470 tons hoisted.	prob: 25,000 at 0.48, 4,500 at 0.58 and 8,500 at 0.21 oz/t Au poss: 1,000 at 0.25 oz/t Au 1981 (OGS OFR 5332, 1981)	Idle.
ONT-376	DETOLA PROSPECT 52 F/7 49°26.6' 92°40.7'	Seven qtz/calcite veins in andesitic volcanics with porphyry diabase, chloritic schist and graphite.	1906: stripping and trenching. 1910: shaft to 255'. 1936: dewatered.	spec: 10,000 at 0.09 and 5,000 at 0.09 oz/t Au in dump (OGS OFR 5332, 1981)	
ONT-377	DRYDEN-RED LAKE 52 F/7 49°19.5' 92°55'	Qtz veins in shear zone in andesite and chloritic schist.	pre-1933: discovery, sampling, trenching.	spec: 30,000 t 0.20 oz/t Au 1981 (OGS OFR 5332, 1981)	Sparse data but indications of fair grade.
ONT-378	ELORA (JUBILEE) 52 F/7 49°26.3' 92°42'	Qtz veins, lenses and stringers in schisted shear zone at contact of acidic and basic metavolcanics.	1897-98: trenches, 75' shaft. 1935-38: shaft to 175', 4,275' dd, prod 1,370 oz Au and 296 oz Ag from 13,766 tons.	prob: 13,500 at 0.18 poss: 215,000 at 0.13 spec: 5,000 (in dump) at 0.10 oz/t Au 1981 (OGS OFR 5332, 1981)	Former production is believed to be from surface open cut.
ONT-379	LAURENTIAN MINE 52 F/7 49°26.6' 92°41.8'	Four qtz veins and qtz bands in shear zone: continuation of the Jubilee vein.	1903-09: 400' shaft, prod 8,143 oz Au from 19,950 t. 1911: little ore milled. 1916, 38: dewatered and sampled.	prob: 2,650 at 0.25 poss: 48,000 at 0.25 spec: 20,000 at 0.10 oz/t Au 1981 (OGR OFR 5332, 1981)	Excellent prospect for dd and u/g exploration with considerable tonnage potential.
ONT-380	MANITOU ISLAND H R Churchill & E J Stone (in 1972) 52 F/7 49°16'10" 92°57'58"	Sulphide zone of py, cp and associated Au with qtz monzonite. No Au found associated with qtz veins.	1897, 1928: expl, discovery. 1934-36: trenching, dd. 1943-45: dd.	prob: 190,000 at 0.21 poss: 341,500 at 0.21 and 90,000 at 0.25 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-381	SELBY LAKE Kenwest ML 52 F/7 49°25'36" 92°42'54"	Qtz lenses in shears within greenstones.	1936-37: surface work, dd, mng plant erected, shaft sunk to 250', u/g drifting.	poss: 22,500 at 0.37 spec: 18,000 at 0.37 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-382	WASHEIBEMAGA LAKE Osisko Lake ML (in 1978) 52 F/7 49°23'30" 92°33'06"	Au in qtz stringers and sulphides.	1939: surface work, dd. 1973-75: mapping, soil sampling, mag and EM surveys.	poss: 52,250 at 0.37 oz/t Au plus same in spec category 1981 (OGS OFR 5332, 1981)	Pelham GML holds a 20% interest in this property.
ONT-383	PIGEON-DYMENT Maverick Ms & Oils (in 1967) 52 F/9 49°33' 92°06.6'	Qtz veins in shear zone at contact of hornblende diorite and metavolcanics. Mineralized zone contains Au with po and cp (potentially large tonnage of low-grade Ni-Cu)	1966: trenching. 1967: dd.	spec: 83,000 at 0.06 oz/t Au to 200' 1981 (OGS OFR 5332, 1981)	

ONT-384	PIGEON-MEGLUND TWP. Ventures L (in 1963) 52 F/9 49°34.2' 92°19.2'	Two qtz lenses in qtz carbonate zone in sheared chlorite schist.	1959: dd, trenching.	spec: 60,000 at 0.20 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-385	SAKOOSE MINE J W Redden 52 F/9 49°31'36" 92°20'18"	Auriferous qtz veins in silicified andesitic lavas.	1898-1902: stripping, 3 shafts, stoping, prod of 8,828 tons at 0.41 oz/t Au. 1931: property examination, dd. 1944-47: u/g drifting and dd, surface dd, prod. 1982: dev.	prob: 6,000 at 0.28 Au, 0.24 Ag, poss: 50,000 at 0.30 Au, 0.26 Ag, spec: 29,000 at 0.31, 0.26 Ag in oz/t; all to 500' 1981 (OGS OFR 5332, 1981)	Production post 1934 came from mine dump. Heap leach pad set up to process ore from main vein, in 1982.
ONT-386	TABOR LAKE R V Ekstrom (in 1979) 52 F/9 49°32'12" 92°24'30"	Auriferous qtz veins within a qtz porphyry body.	1897: discovery, 75' shaft, some trenching. 1934-38: deepened shaft, u/g dev on 3 levels, bulk sampling, dd, prod. 1957-61: workings rehabilitated, dd, 15 ton mill erected. 1980-81: dd, dewatered.	poss: 14,000 at 0.41 and spec: 3,000 at 0.41 oz/t Au 1981 (OGS OFR 5332, 1981)	Sulpetro Mnrl L did 1980-81 work.
ONT-387	BONANZA MINE 52 F/10 49°43.2' 92°52.3'	Discontinuous qtz lenses in basic volcanics and rhyolite tuff intruded by porphyry dikes.	1913-18: trenches and pits. 1919-22: 333' shaft. 1920-23: prod 246 oz Au and 83 oz Ag from 1,206 t milled.	poss: 22,500 at 0.20 spec: 11,250 at 0.20 oz/t Au 1981 (OGS OFR 5332, 1981)	Fair prospect for small to moderate tonnage at acceptable grade. May be liable to wallrock dilution (10-15%).
ONT-388	GRIMSBY 52 F/10 49°43.6, 92°55.2'	Au associated with py in qtz vein in altered diabase.	1940: 20' and 85' shafts, 500' dd, mill test of 80 t.	spec: 8,000 at 0.42 oz/t Au in zone 600' x 4' to 40' 1981 (OGS OFR 5332, 1981)	
ONT-389	LITTLE JUMBO 52 F/10 49°43.2' 92°54.6'	Qtz stringers associated with 18' wide dike of schist in agglomerate.	1897: 55' shaft, sampling.	spec: 46,800 at 0.50 oz/t Au in one 625' x 18' to 50' 1981 (OGS OFR 5332, 1981)	Good prospect for dd and u/g dev.
ONT-390	ELDORADO 52 F/11 49°38.3' 93°20.1'	Siliceous shear zone containing blue qtz blebs in granite.	1900-04: 140' shaft, 83 t mill test.	poss: 6,750 at 0.47 and spec: 40,000 at 0.25 oz/t Au 1981 (OGS OFR 5332, 1981)	Spec material lies below 120'.
ONT-391	GOLDEN EAGLE 52 F/11 49°39.8' 93°18.2'	The mine lies in hornblende biotite granite.	1900: discovery. 1903-06: 75' shaft, mill test on 29 t.	spec: 5,000 at 0.25 oz/t Au in zone 160' x 5.5' to 70' 1981 (OGS OFR 5332, 1981)	
ONT-392	MAGDALENA 52 F/11 49°39.3' 93°11'	Mineralized shear zone in pillow lavas at contact with qtz porphyry dikes.	1948-51: geophs, 4,495' dd.	375,000 poss at 0.15 oz/t Au plus same spec 1981 (OGS OFR 5332, 1981)	Good potential for large scale, low grade o/p operation.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-393	MERIDAN BAY 52 F/11 49°36'10" 93°12'10"	Vein in shear in diabase with Au, py, cp, Ni, Cu and Ag.	1910: stripping; trenching. 1956: sampling	spec: 10,000 at 0.30 oz/t Au, 3.0 oz/t Ag and 2.5% Cu 1981 (OGS OFR 5332, 1981)	
ONT-394	W W SMITH Birch Bay GML (in 1939) 52 F/11 49°39'48" 93°12'18"	Mineralized qtz veinlets within intrusives.	1935-36: trenching, dd.	135' x 17" at $26/t Au and 56' x 2' at $22/t Au 1935 (NM 07/11/35)	The resource estimate was based on surface work only.
ONT-395	RICHARD LAKE Intl Standard Res L 52 F/13 49°50'52" 93°55'00"	Uranium mineralization with mag-bearing pegmatite dykes intruding gneissic metavolcanics. Ore mnrls incl mag, hematite, uranite, uranothorite, allanite and beta-uranotil.	1954-56: staked, stripped, trenched, mag survey, dd, 2 adits and u/g lateral work. 1976-79: remapped u/g workings, ground mag and scint survey, dd, prospecting, trenching and sampling.	poss: 4,000,000 U_3O_8 at 'economic grade' across 60' 1976 (A S Bayne 20/07/78 for Golden Standard ML in TSE SMF 10/10/78)	The 1976 figure was derived from recalculation of 1956 data ind 650,000 at 0.10% U_3O_8 across 10'.
ONT-396	LUN-ECHO (MAVIS LAKE) Lun-Echo GML (in 1961) 52 F/15 49°48'45" 92°39'25"	Green and white spodumene occur in a pegmatite dyke which cuts Brownridge volcanics. Some columbite and tantalite are also present.	1956-57: a series of shallow ddhs.	500,000 at 1.0% Li_2O 1956 (G Darling 24/03/59 in Prospectus, Lun-Echo GML, 09/04/59)	Depth possibilities not fully examined; a parallel zone of pegmatite dykes 1,000' S were not investigated.
ONT-397	ALTO-GARDNER 52 F/16 49°46.2' 92°19.8'	Qtz veins, lenses and stringers in shear zone associated with qtz porphyry intrusive at contact with greenstone schist.	1937-41: trenching, 382' dd. 1946: 125 t milled, prod 10.14 oz Au and 2 oz Ag	poss: 24,375 at 0.20 and 11,600 at 0.18 oz/t Au spec: 48,750 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	Spec material is between 100' and 300'. Property visited by OGS 1982 and ore could be trucked to Goldlund mill.
ONT-398	CALDER-BOUSQUET 52 F/16 49°50.4' 92°27'	Numerous mineralized qtz feldspar porphyry dikes cutting volcanics.	1950: 1,101' dd.	spec: 41,500 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	O/p potential.
ONT-399	CONECHO Rio Algom L (in 1979) 52 F/16 49°52.9' 92°22.8'	Qtz filled fractures in metavolcanics on both sides of granodiorite dike (sill ?).	1946: discovery. 1946: dd, 725' shaft. 1951: total 14,000' dd.	spec: 41,500 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	Property is adjacent to and connected u/g at 200' level to Windfall and Goldlund properties.
ONT-400	EAGLELUND Eaglelund GML (in 1963) 52 F/16 49°51.1' 92°11.6'	Mineralized fracture zones in granodiorite sill.	1946-47: stripping, trenching, mag survey. 1950: 2,300' dd.	spec: 266,000 at 0.10 oz/t Au 1981 (OGS OFR 5332, 1981)	

ONT-401	LUN-ECHO Lun-Echo GML (in 1969) 52 F/16 49°54.6' 92°16.8'	Mineralized granodiorite sill in metavolcanics.	1945: discovery. 1946: stripping, trenching. 1947: mag survey. 1951: 8,337' dd.	spec: 116,500 at 0.20 and 175,000 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	Lun-Echo sold its property in 1969. In 1979, property was divided in four separate parts/ownerships.
ONT-402	NEW KELORE New Kelore ML (in 1964) 52 F/16 49°56'30" 92°07'15"	Qtz stringers in schist zone in or near qtz porphyry intrusions and metasediments.	1901: 110' shaft, 2 levels.	spec: 12,500 at 0.15 oz/t Au in zone 100' x 30' to 50' 1981 (OGS OFR 5332, 1981)	Mineable by small o/p.
ONT-403	PIDGEON MOLYBDENUM Pidgeon Molybdenum ML 52 F/16 49°57'00" 92°21'30"	Mo mineralization as flakes in aplite, as fracture filling seams in aplite and as flakes in muscovite granite pegmatite.	1946: discovery. 1954-58: dd, adit driven 114', bulk sampled, trenching and pitting. 1965: dd. 1979-80: ground geoph, dd.	dd-ind: 15,800,000 at 0.08% Mo on a portion of property 1979 (Rio Algom L, 1979 AR) or ind: 10,000,000 at 0.1% Mo available by o/p (Rio Algom L, 1980 AR)	Rio Algom and Dickenson ML hold 62.22% and 37.78% int, respectively. Need improved metal prices.
ONT-404	QUYTA Nehanni ML 52 F/16 49°57.9' 92°11.6'	Qtz filled fractures in porphyry sill.	1950: dd. 1980: dd. 1981: dd, geol mapping. 1982: dd.	spec: 150,000 at 0.10 oz/t Au in zone 900' x 10' to 200' 1981 (OGS OFR 5332, 1981)	Mineable by decline; requires more expl.
ONT-405	SANDY BEACH LAKE 52 F/16 49°46' 92°23'	Irregular qtz veins and lenses in shear zones in volcanics.	1950: trenching, dd, sampling.	poss: 40,500 at 0.21 and spec: 60,750 at 0.21 oz/t Au in 2 zones 1981 (OGS OFR 5332, 1981)	
ONT-406	SCHMIDT R McCombe (in 1963) 52 F/16 49°50.3' 92°14.6'	Parallel qtz stringers in chlorite schist, with cp, py and sph.	pre-1930: 29' incl shaft. 1950: sampling, 1,007' dd.	spec: 12,500 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981)	
ONT-407	VILLBONA Goldlund ML (in 1979) 52 F/16 49°55' 92°17'	Au in qtz-filled fractures in granodiorite sill in metavolcanics.	1950-51: surface work, dd.	spec: 20,800 at 0.50 to 0.10 oz/t Au in zone 250' x 20' to 100' 1981 (OGS OFR 5332, 1981)	
ONT-408	WINDWARD (WINDFALL) Camreco Inc 52 F/16 49°52.8' 92°22.2'	Narrow qtz veins in tension fractures in granodiorite sill associated with qtz feldspar porphyry. Similar geol setting to Goldlund, whose west zone crosses the boundary.	1941: discovery in area. 1947: dd. 1950: dd, 222' shaft connecting with Goldlund on 200' L, 2,979' lateral advance. 1970-71: re-examination. 1979: mag survey. 1980: 20,000' dd.	prob: 420,000 at 0.25 poss: 630,000 at 0.15 oz/t Au 1981 (OGS OFR 5332, 1981) or prob: 150,120 at 40.30 oz/t Au uncut with 25% dilution 1981 (Windfall Oils & ML, 1980 AR)	No prod history but probably some previous extraction. U/g development via a decline entry is planned. Possibility of ore treatment at Goldlund mill.
ONT-409	MNW GROUP F Koosel (in 1960) 52 H/1 49°14'07" 88°00'12"	A pegmatite dyke, up to 1,400' long and 45' thick, in massive pink granite.	1955-56: sampled, 14 ddhs totalling 2,499'. c 1960: examined as a beryl and cesium deposit.	40,000 of "high-grade lithium ore". (GSC EGR 21, p 61, 1965)	Assay values as high as 2% over 30'.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-410	LAC DES ILES Boston Bay ML 52 H/4 49°10'00" 89°36'46"	Disseminated po, cp, pn, py and violarite in medium to coarse grained gabbroic rocks, chiefly norite. About 5% sulphides. Zone traced for 3,000' by 100-150' wide and open below 600' depth.	1963: discovery of Cu-Ni mineralization, prospecting, mapping, ground geoph, geochem, trenching. 1964: dd. 1966: dd, property allowed to lapse. 1973-75: restaked and drilled outlining platinum group metal deposit(s).	ind: 12,000 T/VF (7.2 million tons) at 0.185 oz/t PGM, 0.22% Cu-Ni, 0.02 oz/t Au to 600' or ind: 30,000 T/VF (18 million tons) at 0.14 oz/t PGM plus Cu-Ni-Au to 600' 1976 (NM 21/10/76)	Pd/Pt ratio approx 7 to 1. Negotiations in 1980 to obtain financing to bring to production at 3,000 tpd o/p operation. Viability of operation closely related to market price of palladium.
ONT-411	CONWAY Leitch GML (in 1958) 52 H/8 49°27'05" 88°00'05"	An Algoman pegmatite dyke consisting of potash feldspar phenocrysts in a matrix of qtz feldspar and muscovite, occurs in metasediments.	1958: 15 ddhs totalling 3,200'.	1,830,000 at 0.96% Li_2O to 1,000' 1958 (Ont GR 31, p 68, 1965)	1,400' long and 10-37' wide.
ONT-412	HARRICANA Combined Mtl ML (in 1959) 52 H/8 49°26'25" 88°01'15"	Spodumene, largely altered to muscovite, occurs in a pegmatite dyke which is located within Archean metasediments.	1955: trenching, sampling and 15 ddhs totalling 7,137'.	1,850' x 10-45' at less than 0.5% Li_2O 1955 (Ont GR 31, p 72-3, 1965)	Problems due to severe alteration of the spodumene.
ONT-413	McVITTIE J McVittie, J Cryderman, E Hadley (in 1960) 52 H/8 49°24'25" 88°01'22"	Medium-grained K-spar and spodumene occur in a pegmatite dyke which cuts biotite granite.	1955-56: trenching, 12 ddhs aggregating 3,587'.	ind: 261,000 at 1.03% Li_2O 1956 (Ont GR 31, p 89, 1965)	
ONT-414	NAMA CREEK York Cons Expl L 52 H/8 49°26'38" 88°02'10"	Two Algoman pegmatite dykes cut metasediments. The dykes are mineralogically unzoned and medium-grained spodumene is distributed throughout. The North zone is 2,800' long and the South zone is 800' long.	1955-57: trenching, sampling, 43,000' of dd, shaft sunk to 503' with stations cut at 150', 300' and 450'. 1974: metallurgical sample taken.	(i) North zone: 2,784,000 ind at 1.11% Li_2O to 1,000' (ii) South zone: 1,508,332 ind at 0.95% Li_2O 1955 (R J Isaacs 31/10/55, for Nama Creek ML)	Preliminary testing indicated Fe content can be sufficiently reduced to satisfy user requirements. Leased until 1991.
ONT-415	PINE PORTAGE Lun-Echo GML (in 1961) 52 H/8 49°19.6' 88°16.5'	Several sill-like spodumene-bearing pegmatite dykes intrude Archean sediments. Some columbite occurs sporadically in the No 1 pegmatite.	1955: 39 ddhs totalling 10,561' on 6 pegmatites.	(i) No 1: 900' x 30' at 30% spodumene (ii) No 3: 1,050' x 20' at 25% spodumene (iii) No 4: 800' x 15' at 10-15% spodumene (iv) No 5: 550' x 5-15' at 20% spodumene 1955 (Ont GR 31, p 81-83, 1965)	The deposits are truncated by diabase at shallow depths and are altered near the contacts, thereby appreciably reducing the tonnage potential.

ONT-416	WEST LITHIUM Combined Mtl ML (in 1959) 52 H/8 49°26'30" 88°01'12"	Potash, feldspar and spodumene phenocrysts in qtz, feldspar muscovite groundmass within Algoman pegmatite.	1955: trenching, 13 ddhs totalling 6,675'.	"appreciable tonnage" of 1% Li_2O 1955 (Ont GR 31, p 106, 1965)	
ONT-417	WILPORT Wilport GML (in 1959) 52 H/9 49°37'45" 88°00'30"	Auriferous qtz veins cutting sediments and volcanics.	1935-40: geoph surveys, trenching, dd, surface expl.	dd-ind: 41,212 at $5.60/t Au (c 0.16 oz/t Au) 1936 (Globe & Mail 13/01/37)	Northern Empire ML optioned the claims in 1940. Surface expl was not encouraging. Claims optioned by Teck Corp in 1980.
ONT-418	WOODS-TYSON (AMORADA) W T Woods & A E Tyson 52 H/9 49°41'15" 88°02'30"	Qtz veins in vicinity of diorite intrusives into lavas. Mineralization incl Au, Ag, Mo and Cu.	1934-42: surface work, dd, trenching, test pitting, sampling. 1958-59: geoph surveys, stripping, trenching, dd. 1965: geol mapping, trenching, stripping, dd.	(i) No 1 A: 65' x 18" at 1.01 oz/t Au (ii) No 3: 72,000 dd-ind at 2% MoS_2 over 36" for 1,220' 1959 (FP Surv Ms 1960, p 161)	The No 1A gold zone may have been mined in 1964.
ONT-419	PUDDY LAKE Commerce Nickel ML (in 1979) 52 H/13 49°57'50" 89°32'05"	Lenticular serpentinite intrusive contains 10 zones of lenses and veinlets of massive nickeliferous mag. Ni-Cu-Co sulphides are disseminated throughout the stock.	1964-71: discovery, ground mag, dd, EM survey, trenching, further dd.	30,000,000 at 0.1-0.6% Ni, c 0.01-0.06% Co, 7.2% Fe; 1967 (NM 15/06/67; NM 17/08/67)	A massive sulphide zone grading 4.1-11.6% Ni was discovered N of main zone in 1967.
ONT-420	OBONGA LAKE Chromasco L 52 H/14 49°58'06" 89°29'24"	Numerous chromite occurrences as discrete grains, streaks and massive bands in Archean serpentinized gabbro stock.	1928-30: discovery, stripping, trenching, dd, 350' shaft on 'E' zone. 1933-34: 70 ton bulk sample, 5,000' dd. 1936-38: mng operations, u/g dev on 3 levels, u/g dd, 4,440 tons at 13-30% Cr_2O_3 shipped.	(i) 'E' zone: 32,800 meas at 9.7% Cr_2O_3 incl surface dump (ii) 'A' zone: 1,000,000 inf at 7% Cr_2O_3 (iii) 'G' zone: 1,500,000 inf at 2.3% Cr_2O_3 per 100' depth (iv) 'H' zone: 'substantial tonnage at a grade up to 9% Cr_2O_3' 1938 (H H Merritt 08/05/38, unpubl rept)	'H' zone assumed to have more promise than either 'A' or 'G'. Idle since 1938.
ONT-421	AUBRY (SEYMOUR LAKE) Dempster Explo L (in 1958) 52 I/8 50°24'30" 88°26'55"	Spodumene-bearing pegmatite dyke intrudes schistose amphibolite and pillow lavas.	1957: mapping, sampling, 11 ddhs totalling 1,305' on North zone and 4 ddhs totalling 327' on South zone.	(i) North zone: 700' x 30-35' at 1.57% Li_2O (ii) South zone: 400' x 50' at less than 1% Li_2O 1957 (Ont GR 55, p 47, 49, 196C)	SE part of South zone avg 0.5-1% Li_2O, SW part avg less than 0.5% Li_2O.
ONT-422	DESPARD W Despard (in 1959) 52 I/8 50°25'35" 88°05'35"	Pegmatite dyke in Archean metavolcanics. Constituents are feldspar, spodumene, qtz, muscovite, tourmaline and apatite.	1958-59: 1,255 lbs of surface samples assayed, 10 ddhs aggregating 1,724'.	1,500' x 40' at 1.60% Li_2O in western half and low grade in eastern half 1959 (Ont GR 55, p 50-51, 1968)	The eastern part is low grade due to alteration of spodumene.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-423	DAWSON-WHITE Coastoro Res L 52 J/2 50°08'15" 90°39'25"	Qtz lenses along greenstone-granodiorite contact.	1900-02: 64' shaft, mill, prod. 1936-39: surface work, dd, shaft deepened, drifting. 1965: dewatering, sampling, EM and mag surveys.	100' x 42.7" at 1.39 oz/t Au plus other short high grade lenses 1937 (C A Campbell 19/02/65 in Prospectus, Pomac ML, 1965)	c 225 tons at 0.84 oz/t Au were o/p mined in 1901-02. Coastoro is subsidiary of Jonpol Expls L.
ONT-424	ST ANTHONY MINE Aubet Res L 52 J/2 50°06'45" 90°40'00"	Py, cp, gal, sph and Au in fissure veins at contact of lavas and granodiorite.	1900-12: pitting, trenching, shaft sinking, 10 stamp mill, u/g dev, prod. 1915-18: u/g dev, prod. 1920-21: tailings treated. 1933-42: 125 ton mill, u/g dev incl drifting, cross-cutting, new shaft, dd, prod. 1964: dd. 1982-83: 5 ddh, 4,487'.	proven-broken-prob: 64,264 at $15.23/t Au (0.435 oz/t Au) uncut 1947 (St Anthony ML 11/03/49 prospectus)	Intermittent prod 1905-41 totalled 63,310 ozs Au plus Ag.
ONT-425	ALCONA MINE R. Rosenblat 52 J/4 50°04'00" 91°38'00"	Au bearing qtz veins as fracture fillings along contacts between porphyritic basalt and massive andesite.	1929: discovery. 1929-30: trenching, test pitting. 1932-33: trenching, test sampling in bulk, dd. 1936-37: u/g work on 350' shaft. 1939: dd, sampling, mapping. 1978-79: EM and mag surveys, dump sampling, dd.	1.44' x 350' at $13.65/t Au (0.39 oz/t Au) in No 1 Vein plus 1.65' x 235' at $10.80/t Au (0.31 oz/t Au) in No 2 Vein 1936 (Ross Kidd 02/08/79 rept for Oriana Devs L in VSE SMF 12/09/79)	The drilling and u/g work did not substantiate these surface sampling results.
ONT-426	ALKENORE-BUFFALO Goldwinn Res L (option) 52 J/4 50°03'45" 91°37'45"	Au bearing qtz veins occur in fracture zones within andesitic lavas. Ag also present.	1936-37: stripping, trenching, dd. 1980: mag, EM and geochem surveys, trenching.	dd-ind: 70,000 at 0.24 oz/t Au to 300' c 1937 (NM 21/08/80)	
ONT-427	SABINE Umex Inc 52 J/7 50°18'37" 90°41'56"	N/A.	1980-81: discovery. 1981: 2,642' dd.	Approx 1 million tons in 3 lenses. (MPS, 12/01/83)	Small tonnage zinc-copper-silver.
ONT-428	JUTTEN Northern Can ML 52 J/8 50°23'05" 90°28'20"	Qtz vein contains Au, Ag, py, gal and cp.	1948-50: prospecting, stripping, dd.	120' x 3.7' at 0.27 oz/t Au, 0.60 oz/t Ag 1949 (Northern Can ML, 1963 AR)	
ONT-429	McCOMBE (ROOT LAKE) Cons Cdn Faraday L (in 1970) 52 J/13 50°56'20" 91°42'20"	Fine-grained pegmatite dyke intrudes Archean mafic metavolcanics. Composed of albite feldspar, qtz and spodumene. No regular zoning but some banding does occur.	1956: 72 ddhs.	2,297,000 at 1.3% Li_2O 1957 (Capital Lithium ML, 1957 AR)	

ONT-430	WESTARIO Westario Sulphur ML (in 1958) 52 K/1 50°05'30" 92°11'	Disseminated py and po are found associated with lean qtzitic mag iron fm.	1938-40: surface work, dd, res est. 1951-52: geoph survey, dd.	dd-ind: 2,750,000 contains 750,000 t S, some Au to 500' 1938 (J N Robinson 15/04/38 in Prospectus, Westario Sulphur ML, 1938)	
ONT-431	AIKEN-RUSSET Aiken-Russet Red Lake ML 52 K/13 50°58'40" 93°56'40"	Au mineralization in strongly sheared tuffs intruded by porphyry dykes along diorite sills.	1936-37: mag survey, stripping, dd. 1943-47: trenching, dd, geoph survey. 1967-68: dd. 1973-77: dd, stripping, trenching, ground geoph survey follow up to airborne.	ind: 102,555 at 0.22 oz/t Au in 3 separate zones 1946 (J L Tindale 04/01/66 in Prospectus, Aiken-Russet Red Lake ML, 04/03/66)	This property is located nearby the Madsen mine and may be the up-dip extension of Madsen mineralization.
ONT-432	MADSEN MINE Noranda Expl CL 52 K/13 50°58'00" 93°54'50"	Lenticular, silicified and carbonatized zones in tuff. Mineralization incl py, po, asp, mag and Ag.	1936-76: 2 shafts, dd, u/g dev, prod of 2,416,609 ozs Au plus Ag from 8,371,631 tons milled. 1982: dd, study of old records.	proven & prob: 267,400 at 0.242 oz/t Au and ind: 46,075 at 0.30 oz/t Au 1975 (Bulora Corp L, 1975 AR)	Less subsequent production of c 39,801 tons.
ONT-433	STARRATT-OLSEN Starratt Nickel ML 52 K/13 50°57'00" 93°56'00"	Au bearing pods of garnetiferous tuff in a basalt flow next to a diorite contact. Mnrls incl py, mag, garnet, po, ilmenite, asp, cp and sph.	1934-44: trenching, dd, expl shaft, u/g dd, shaft to 310' with 2 levels. 1947-56: workings deepened to 1,960' with 11 levels, prod of 163,990 ozs Au and 27,432 ozs Ag. 1961-64: dd. 1982: dd, study of old records, tr.	15,000 at 0.45 oz/t Au in mine 1956 (NM 26/07/73)	Efforts to extend resources by dd were inconclusive. Nothing of significance was discovered. Leased for 20 yrs in 1981 to Noranda Expl CL.
ONT-434	COPPER-LODE 'A' Goldwinn Res L 52 K/15 50°58'48" 92°57'18"	Blebs, veinlets and disseminations of po, py and cp locally replaces mafics in schists, amphibolites and tuffs. Mo in qtz vein within granite and along diorite contacts; one zone 260' x 85' ranged 0.84-2.52% MoS_2.	1956-60: trenching, geoph and dd. 1964-70: extensive dd, bulk samples. 1972: feasibility study. 1977: IP survey, dd on Mo showing.	dd-ind: 854,007 at 1.01% Cu, 0.57 oz/t Ag to 400' d with 0.50% Cu cut-off 1970 (Copper-Lode ML 09/12/70 prospectus)	Economic feasibility study in 1972 indicated the deposit was sub-economic.
ONT-435	COPPER-LODE 'E' Selco Inc 52 K/15 50°57'54" 92°52'48"	Massive py, po and mag containing disseminated cp and sph as en echelon pods in garnetiferous amphibolite along a diorite sill and in shear zones within sediments.	1962-64: discovery, trenching, EM survey, geol mapping, 19,240' in 65 ddhs. 1968-70: airborne EM and mag; IP, EM and geol surveys; prospecting and line cutting. 1972-73: airborne and ground geoph, relogged dd core, 3 ddhs. 1977-78: 4 ddhs, ground geoph.	dd-ind: 338,257 at 4.36% Zn, 0.60% Cu, 0.40 oz/t Ag to 200' d with 2% Zn cutoff 1965 (Copper-Lode ML 09/12/70 prospectus)	Property near Selco's South Bay mine. Road and power line pass near property. Drilling in 1977-78 proved inconclusive.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-436	MINAKI PYRITE 52 L/2 50°04'00" 94°36'00"	Py bearing zone 1,000' long by 75' wide striking EW and dipping 83° N is found within Archean granite and qtz and feldspar porphyries.	1937: 26 ddhs, 22 pits excavated.	dd-ind: 1,432,400 at 41% S to 250' 1937 (Ont MRC 5, p 36, 1967)	
ONT-437	REYNAR LAKE-ALMO LAKE Golden Bounty Mng CL 52 L/6 50°28'05" 95°01'07"	Disseminated to massive po, pn, violarite, cp and py closely associated with fault gouge zone cutting granitic and qtz diorite rocks.	1953-54: discovery, detailed surface work, geoph survey, dd. 1955-56: 402' shaft, u/g dev on 2 levels. 1962: shaft dewatered, sampled. 1970: IP survey, dd. 1974: dd. 1977-78: expl work, dd.	ind: 1,010,000 at 1.2% Ni, 0.5% Cu between 250' and 375' levels 1956 (CMH 1962, p 185)	Drilling results in 1974 were disappointing. Additional exploration is planned at some later date.
ONT-438	TOURIST LAKE Huronian ML (in 1978) 52 L/7 50°16'18" 94°40'08"	Uranium values in biotite schist bt a qtz diorite and qtz monzonite both considered to be phases of one felsic intrusive.	1968-70: airborne rad survey, rock trenching, 3 Winkie drill holes, ground mag, scint and geol surveys. 1975-77: prop examination, dd, rock samples.	370' x 3.7' at 0.83 lb/t U_3O_8 1976 (Cons Summit ML 1976, rept to shareholders)	Only minor radioactivity intersected in drilling; outlining of other potential zones not encouraging.
ONT-439	WERNER LAKE-GORDON LAKE MINE Cons Cdn Faraday L 52 L/7 50°27'54" 94°54'45"	Po, pn, cp and py within peridotite plugs located in a fault zone. Sulphide distribution erratic. Sulphides occur in long narrow stringers parallel to host rock banding bt mafic plugs and amphibolites.	1942-44: discovery, expl, dd. 1948-49: geoph survey, dd. 1952-61: dd, u/g dev in 2 shafts, 700 tpd mill erected. 1962-72: cut and fill mng, expl, dd, c 26,700,000 lbs Ni plus Cu, Pt, Pd produced to 1972. 1973-76: mill operated, geoph survey on Copper zone.	(i) Section 8300 E: 1,700,000 ind at 0.46% Ni. (ii) Copper zone: 90,000 ind at 1.23% Cu open at both ends. (iii) Mine: 170,421 proven at 0.85% Ni, 0.35% Cu 1971 (Cons Cdn Faraday L, 1971 AR)	56,700 tons milled after resource figure for mine stated. Operation ceased due to decreased tonnage, ore dilution, and higher operating costs.
ONT-440	GOLD FRONTIER Mount Jamie ML (75%) New Dimension Res L (25%) 52 M/1 51°04'30" 94°08'30"	Mineralized qtz veins in shear zones associated with qtz porphyry intruded into intermediate volcanics. Ore mnrls incl py, po, gal, cp, sph and Au.	1934-42: pitting, trenching, dd, No 1 shaft sunk 495', No 2 shaft sunk 125'. 1945-47: No 1 shaft deepened, dd, u/g dev on 5 levels. 1961: examined property. 1974-77: workings dewatered, 100 tpd mill erected, mill tune-up, u/g dev. 1979: feasibility report. 1980: developmental mill run. 1981: dd, geol, site preparation.	ind: 23,365 at 0.489 oz/t Au plus stockpiled: 3,900 at 0.39 oz/t Au 1977 (NM 09/02/78) or 50,000 at 0.50 oz/t Au 1977 (New Dimension Res L, 1979 AR) or est: 90,000 at 0.50 oz/t Au 1980 (CMH 1982-83, p 212)	There appears to be an excellent chance to dev additional ore tonnages. 720 tons milled 1980. Plans to bring property to production.

ONT-441	MAY-SPIERS Dumont Nickel Corp 52 M/1 51°02'40" 94°13'36"	Gold mineralization in qtz veins which occur in shear zones close to and along contacts between volcanics and porphyry intrusives.	1928-34: discovery, trenching, pitting, dd. 1935-37: 375' shaft with u/g dev on 2 levels, surface and u/g dd. 1981: geoph. 1982: dd.	poss: 30,000 at 0.09 oz/t Au 1981 (Dumont MSE, AL 181/81)	Values obtained u/g were not substantial enough for continuing exploration. Dumont Nickel Corp optioned property in 1979.
ONT-442	RED CREST Orofino Res L 52 M/1 51°03'45" 94°04'35"	Coarsely crystalline auriferous py and 2nd generation fine py, mo, tellurides and native Au derived from coarse qtz-py veins. Both in fracture zones along diorite-lava flows contact.	1930-31: dd. 1934-37: trenching, dd, o/p operation, mng plant, shaft to 600' with 4 levels, u/g dev, 591 tons milled. 1981: field program.	ind: 47,439 at 0.269 oz/t Au, uncut or 21,182 at 0.318 oz/t Au, uncut with 10% dil 1938 (Ont AR 1939, pt 2, p 202)	No reason given for mine shutdown.
ONT-443	ROWAN Goldquest Expl Inc 52 M/1 51°04'15" 94°07'15"	Qtz veins containing Au and sulphides occupy fracture zones close to the contact between lavas and qtz porphyry.	1928: discovery. 1934: 432' shaft, dd, lat dev. 1946-47: dd. 1953: dd. 1958: 4,500' dd, sampling.	Discovery Hill: 89,000 at 0.29 oz/t Au 1982 (Info Bull, Goldquest Expl Inc, 1982)	May eventually ship to Dickenson mill.
ONT-444	TROUT BAY Wilanour Res L 52 M/1 51°00'10" 94°12'20"	Po, sph, py and cp mineralization fill dilation zones in and partly replace greywacke, argillite and gabbro. Two bodies about 800' apart occur stratigraphically on or within several feet of a 'barren' sulphide horizon.	1956-62: geol and EM surveys, dd, trenching, SP and mag surveys. 1966-72: airborne mag and EM, trenching; ground mag, IP and resistivity; dd. 1973: feasibility studies. 1975-77: airborne survey, prospecting, highway started.	(i) East zone: 124,760 at 7.86% Zn, 1.50% Cu, 1.70 oz/t Ag, 0.24% Pb, 0.007 oz/t Au (ii) West zone: 13,766 at 4.75% Zn, 0.68% Cu, 0.94 oz/t Ag pre-1969 (Ont MRC 12, p 154, 1969)	The feasibility study encouraged building of a highway to the property and further investigations. In 1980 the property was to be re-evaluated by Trout Bay Joint Venture.
ONT-445	TROUT BAY NICKEL Cochenour Expls L 52 M/1 51°00'30" 94°12'30"	Cu-Ni mineralization in antigorite tremolite schist, a sheared altered basal portion of a gabbroic sill. Ore mnrls incl po, pn, cp and py.	1956: discovery, geol and EM surveys, dd. 1960-62: trenching, SP survey, dd, geol and mag survey. 1970: expl, geoph, dd.	500' x 11-37' at 0.55% Ni, 0.20% Cu 1970 (Cochenour Willans GML, 1970 AR)	The nickel showing is part of a 2.25 mi long Ni-Cu zone. Trout Bay copper deposits are located nearby.
ONT-446	BATHURST St Mary's Expls L 52 N/2 51°15'00" 92°52'30"	Numerous auriferous qtz veins within felsic intrusives and Keewatin volcanics. No 3 vein is 165' long x 2' wide at 0.86 oz/t Au on surface and 180' long x 3.5' wide at 0.52 oz/t Au at 200' level.	1926-29: discovery, stripping, shaft to 300', mill erected, very small prod. 1934-36: shaft dewatered, records examined, shaft deepened to 420', some dd. 1978-79: selected sampling, mapping, dd.	proven: 80,000 at $20/t Au 1934 (Bathurst GML 06/10/34, letter to shareholders)	Initially, drilling of No 3 vein is intended to extend known reserves below the 200' level of the shaft; later, dewatering and deep drilling is envisaged. Under a 1979 deal, Northgate Expl L funded the work.
ONT-447	CORLESS Corless Patricia GML (in 1937) 52 N/2 51°08' 92°52'	Mineralized qtz veins in volcanics and intrusives.	1926-36: stripping, trenching, test pitting, dd.	518' x 12' at $16.09/t Au 1936 (Richmond Dev CL 18/02/56 progress rept for Corless Patricia GML)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-448	UCHI MINE Little Long Lac GML 52 N/2 51°04'15" 92°35'45"	Qtz veins within greenstone belt carry gold in sulphides.	1927-29: dd, Uchi shaft, Grasett shaft, u/g dev. 1936-39: dd, Hanalda shaft, Jalda shaft, u/g dev, prod. 1940-43: all properties amalgamated, dd, u/g dev, prod.	(i) Uchi: 214,000 at $5.15/t Au (0.147 oz/t Au) (ii) Grasett: 78,295 at $7.75/t Au (0.22 oz/t Au 1942 (Hasaga GML, 1948 AR)	Mine closed due to insufficient ore reserves after having mined 757,074 tons grading 0.15 oz/t Au.
ONT-449	ABINO Goldquest Expl Inc 52 N/4 51°06'30" 93°45'40"	Au in qtz veins and stringers within banded chert zone and in silicified lavas. Au, py, po, cp, gal and sph in qtz fracture filling within 100-150' wide, 3,300' long and 1,000' deep granodiorite zone.	1939-46: discovery, stripping, trenching, dd, geol and mag surveys. 1959-60: dd, mng plant, shaft to 530' with u/g dev on 3 levels, flooded. 1974-77: extensive dd, mag and EM surveys.	ind: 405,162 at 0.203 oz/t Au (uncut) in granodiorite zone 1976 (CMH 1977-78, p 17)	Interest in this property was revived by higher Au prices. Further drilling was recommended.
ONT-450	ANNCO Annco ML 52 N/4 51°04' 93°48'18"	Fe fms, qtz latite, sediments underlain by basic volcanics, serpentite and variolitic basalts. Au in complex block faulted structures in talcose rocks.	1927-35: stripping, trenching, dd. 1963-71: expl and dev from 2,050 level of Cochenour mine; Au-Ag recovered from 149,243 tons mined.	50,000 of "excellent grade" Au 1971 (NM 31/01/74)	Possibility of being mined through access from Cochenour mine. A detailed exploration of this and other properties in the vicinity of the former Cochenour mine was resumed in 1979 by Wilanour Res L.
ONT-451	BUFFALO RED LAKE Wilanour Res L 52 N/4 51°00'34" 93°51'14"	Au and py in qtz-tourmaline veins within porphyritic qtz latite. Au extends into wallrock.	1925-31: discovery, trenching and pitting, dd. 1946-48: dd, shaft to 200' with drifting and crosscutting on 1 level, u/g dd. 1970: surface work. 1980: dd. 1981-82: ramp extended to 175' L where explored; o/p material mined and tested at Cochenour mill.	200,000 at 0.179 oz/t Au 1981 (NM 05/03/81)	Work was suspended in March 1982 after u/g exploration had shown that mineralization was diffuse, requiring either costly selective mining or bulk extraction at high dilution.
ONT-452	COPPER-MAN Copper-Man ML Ridgefield Expls L (in 1964) 52 N/4 51°04'00" 93°59'00"	Auriferous qtz veins in metavolcanics.	1959-62: stripping, dd.	dd-ind: 300' x 3' at 1.11 oz/t Au 1959 (NM 28/01/60)	
ONT-453	HANSON-CAMPBELL Alcourt ML (in 1972) 52 N/4 51°04'33" 93°58'37"	Auriferous qtz veins in diorite.	1937: dd. 1960-64: trenching, mapping, sampling, dd, mag and mercury level surveys.	125' x 3' at 0.266 oz/t Au 1962 (H Grant Harper 31/05/65 in Prospectus, Alcourt ML, 1965)	Resource estimate based on surface examination only.

ONT-454	HASAGA MINE Little Long Lac GML 52 N/4 51°01'15" 93°49'40"	Au, Ag, py and cp in qtz veins and lenses in vertical fracture zones within qtz latite.	1927-36: discovery, trenching, dd. 1937-53: surface and u/g dd; 3 shafts, No 1 to 1,075', No 3 to 2,450', u/g dev on 14 levels, prod of 219,320 ozs Au and 52,823 ozs Ag.	proven: 47,805 at 0.108 oz/t Au in stopes and pillars plus ind: 200,203 at 0.192 oz/t Au below 1,800' level 1952 (Ont GR 56, p 42, 1968) or dd-ind: 250,000 at 0.17 oz/t Au (CMH 1981-82, p 199)	The mine shutdown when accessible ore reserves were exhausted.
ONT-455	HUMLIN RED LAKE Humlin Red Lake ML 52 N/4 51°01'45" 93°56'45"	Auriferous veins in basalts and latite breccias.	prior 1941: rock trenches. 1945-46: 18,000' dd. 1981: mapping and survey work.	dd-ind: 150' x 12' at c 0.13 oz/t Au 1945 (NM 16/08/45)	Optioned in 1980 to Cedar Explorco L (Selco subsidiary) who dropped it in 1983.
ONT-456	McFINLEY RED LAKE Sabina Industries L McFinley ML 52 N/4 51°07'30" 93°44'45"	Au-bearing qtz veins and sulphide mineralization fracture filling sediments.	1928: claims surveyed. 1941-57: dd, mag survey, geol mapping, trenching, shaft sunk to 423' with 3 levels, surface plant erected, u/g dev. 1974-75: mag and EM surveys, geol mapping, dd. 1981: bulk sampling, overburden drilling.	168,000 at 0.18 oz/t Au, 1.36 oz/t Ag to 325' (CMH 1961-82)	
ONT-457	PARVUS-RED LAKE Parvus ML 52 N/4 51°00'30" 93°54'45"	Auriferous qtz veins in dacite and in shear zones along margin of diorite. Py, po, asp and Fe bearing carbonates are present.	1925-26: prospecting and trenching. 1937-38: stripping, trenching, dd. 1945-48: trenching, dd. 1960-63: dd, surveyed. 1971-73: geoph surveys, dd.	(i) No 2: 150' x 5' at 0.253 oz/t Au (NM 20/08/60) (ii) No 4: 500' x 7' dd-ind at 0.092 oz/t Au 1947 (S Szetu 25/06/74 in Prospectus, Parvus ML, 27/06/74)	The core was relogged in 1974, and the property was being remapped. Dd in 1973 encountered zinc values.
ONT-458	REDCON Redcon GML 52 N/4 51°05'30" 93°44'00"	Au-bearing veins in andesite of early Precambrian age. The volcanics form numerous synclines and anticlines of various sizes.	1945-60: trenching, dd, mag, resistivity, and IP surveys. 1972-73: airborne mag and EM surveys, ground follow-up, dd, detailed geoph surveys. 1978-79: dd. 1981: dd, 12,613', stripping, channel sampling.	dd-ind: 270' x 4' at 0.27 oz/t Au 1959 (H G Harper 23/04/74 rept for Redcon GML)	Additional drilling, geophysics and surface stripping have been recommended to test new Au-bearing qtz vein discovery of 1979.
ONT-459	REDRUTH Redruth GML 52 N/4 51°01'20" 93°58'00"	Qtz veins in shears. Mineralization incl Au, py, po, asp, cp, sph and gal.	1944-46: dd, trenching.	110' x 1.83' at 0.383 oz/t Au 1946 (Ont GR 39, p 33, 1965)	Spiffle Explorco, a wholly owned subsidiary of Selco, has exclusive rights to explore and purchase this property (1981). Option dropped in 1983.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-460	SANSHAW Sumtra Diversified Inc (45%) Bonanza Red Lake Explo Inc (55%) 52 N/4 51°02'42" 93°49'00"	Au mineralization in sheared granodiorite west of greenstone contact. Py, cp, sph, po and qtz stringers present.	1935-37: surface expl, dd, mng plant, shaft to 35'. 1941: 2,738' dd. 1946-48: shaft to 437' with u/g dev on 2 levels, u/g dd, mine flooded. 1958-66: dd. 1973-75: dd, u/g dd from Wilmer's 1,300' level. 1979-81: 1,147' dd.	175,000 at $7/t Au 1947 (NM 29/01/48)	Severe water problems make only 50-70,000 tons recoverable. (W P Hackle 02/01/73 for Xtra Devs Inc). Optioned by Wilanour Res L in 1981.
ONT-461	WILMAR MINE Wilmar ML 52 N/4 51°04' 93°47.5'	Au found in 3 modes; a qtz stockwork in granodiorite, a qtz fault breccia zone in agglomerate and qtz-filled fractures in carbonate zones within volcanics.	1927-46: stripping, trenching, dd. 1960-66: u/g expl and dev from the 1,300' level of Cochenour mine. 1967-71: 193,435 tons milled at Cochenour mill. 1973-75: u/g and surface dd, 34,378 tons of test material milled, mine flooded. 1979: geoph and geol surveys, reassessment of property by Wilanour Res L. 1980-81: mill testing, prod.	(i) West Granodiorite Zone: 3.15-4.5 million at 0.076-0.131 oz/t Au 1975 (Cochenour Willans GML, 1975 AR) (ii) East Breccia Zone ind: 100,000 at 0.25 oz/t Au 1974 (NM 13/06/74)	Shaft of original Cochenour has been dewatered to 1,800' level which will reopen u/g workings of Wilmar and of Cons Marcus GML. Mine being maintained in 1982.
ONT-462	SOL-D'OR Ronda Copper ML (in 1977) 52 N/7 51°16'40" 92°31'30"	A series of 6 sub-parallel qtz veins occur in a 350' wide fracture zone in Archean volcanics. Mineralization incl py, cp, gal, sph and Au.	1927-30: discovery, pitting. 1932-37: dd, shaft to 164', drifting on 154' level, o/p mng. 1974-76: IP survey, geol, dd.	ind: 8,565 at $20/t Au in vein nos 3 and 4 1936 (NM 18/02/37)	The company was privately financed and went bankrupt in 1940. Only 560 tons of ore were milled up to mine closure in 1937.
ONT-463	KOVAL-OHMAN Little Long Lac GML 52 O/2 51°14'00" 90°33'50"	Au mineralization in biotite-qtz-feldspar schist which forms local intercalations in mafic volcanics.	1953-54: extensive dd. 1975: geol, geoph and dd expl programme.	dd-ind: 149,400 at 0.19 oz/t Au plus 41,000 at 0.14 oz/t Au 1954 (Ont Map P 809)	Due to extensive overburden and uniqueness of deposit, research was planned to seek other geotechnical exploration methods.
ONT-464	KAPKICHI LAKE Hoffman Explo & Mnrls L O/8 51°28'24" 90°19'28"	Disseminated po and cp occur in altered qtz diorite within Keewatin greenstone. Ultramafic lens hosts best mineralization.	1945-49: geoph survey, dd. 1956-60: test pitting, trenching, dd, mag survey. 1970-72: dd, airborne mag and EM survey.	(i) Kapkichi Lake G: 7,500,000 at 0.41% Cu, 0.10% Ni to 600'. (ii) Kapkichi Lake J: 37,000,000 at 0.40% Cu, 0.12% Ni to 600'. (iii) K 1-1: 73,500,000 at 0.39% Cu, 0.11% Ni to 600'. 1972 ? (P Potapoff 29/07/77 for UMEX, letter to NMI)	The low grade Cu-Ni mineralization could not be profitably mined under 1970 economic conditions. O/p K1-1 experimental mng in 1980 - shipped to Thierry mill. Inactive 1982, optioned to Umex Inc.

ONT-465	THIERRY MINE Umex Inc 52 O/8, 9 51°29'50" 90°20'40"	Po, cp, py, pn, violarite, mag in Archean bio-chl-Hb ultramafic schist shear zone and massive mafic to ultramafic rock. Zone 3,200' x 100' x 1,600'.	1970-72: dd, airborne ground mag and EM, discovery. 1972-76: u/g, o/p dev shaft, 1,781. 1976-80: 4,034,110 of about 1.20% Cu 1977-82: prod.	proven: 15,000,000 mt at 1.63% Cu 1975 (Union Minière, 1975 AR)	Operations ceased in April 1982 due to low copper prices.
ONT-466	PICKLE CROW MINE Highland-Crow Res L leased to Gallant GML 52 O/9 51°30'30" 90°03'20"	Au, Ag, W in fracture zones and veins in metavolcanics.	1928: staked. 1933: 380' shaft. 1935-66: prod 1,416,214 oz Au, 168,757 oz Ag. 1943: prod 9,012 lb WO_3. 1974: geoph, dd. 1980: geoph, dd. 1981: dd, 25,052'. 1982: dd.	'D' Zone & 'D' East Zone: 75,000 at 0.30 oz/t Au Main Zone: 15,000 at 0.40 oz/t Au 1982 (NM 25/02/82)	Strike length of 400'-500' open to east-west and at depth. Gallant holds 99 yr lease. Feasibility study was planned for 1982.
ONT-467	LANG LAKE Bocheama Copper ML 52 O/12 51°35'45" 91°37'00"	Py, cp and mo disseminated within greywacke, volcanics and feldspar porphyry or as fracture fillings and as epidote replacement.	1966-71: discovery, prospecting, trenching, sampling, EM survey, dd.	1,200' x 400' at 0.3% Cu, some Ag, erratic Mo 1968 (Ont MRC 12, p 179, 1969)	Drilling in 1971 was disappointing but the zone is open to the east and the company holds 600 acres 1978. Property under lease.
ONT-468	FROND LAKE (FORT HOPE) Keezic Res L 52 P/9 51°38'07" 88°17'00"	Gold in 2 zones, assoc with qtz and sulphs in a series of bedded sediments.	1940: discovery, dd. 1972: geoph, 65 ddh 12,000'. 1981: mag VLF geoph. 1982: humic survey, dd.	(i) North Zone: 400' x 5' at 0.39 oz/t Au (ii) South Zone: 900' x 6.5' at 0.25 oz/t Au 1940 (NM 22/10/82)	Recent Keezic work has extended both zones 500' to the east.
ONT-469	GOLDEN HOPE MINE La-Chib ML 52 P/9 51°36'40" 88°02'25"	Au in qtz veins filling tension fractures in greenstone along contact with porphyry dyke. Po, py and cp associated mnrls.	1927-28: shaft to 115' with u/g dev at 100' level, surface sampling. 1933-34: mine dewatered and sampled, dd. 1946: mag survey, dd. 1958-59: stripping and trenching. 1963, 1972: feasibility studies.	(i) Shaft vein: 575' x 34.5' at $20.81/t Au 1928 (Ont AR 1929, pt 2, p 46) (ii) California vein: 130' x c 1.5' at 0.18 oz/t Au and 30' x c 1.5' at 0.09 oz/t Au 1955 (R A Halet 31/01/56 in Prospectus, Golden Hope ML, 20/03/57)	Gold values are erratic.
ONT-470	MIMINISKA LAKE New Jersey Zinc Expl C (Can) L 52 P/10 51°35' 88°51'	Qtz carb vein systems with py-stibnite-Au mnrl in altered mafic volc near contact with metased.	1980: dd. 1981: discovery.	West Zone: 83,000 at 1.37% Sb and 0.07 oz/t Au East Zone: 660,000 at 3.1% Sb and erratic Au values 1982 (OGS, MP 107, p 62, 1982)	The Miminiska gold project encompasses 19,000 acres.
ONT-471	OPAPIMISKAN LAKE Dome Expl (Can) L 35% Cdn Nickel CL 23.95% Esso Mnrls Can 23.95% Lacana Mng Corp 17.1% 53 B/9 52°37' 90°25'	Outlined Au mineralization occurs in two discrete zones in banded iron formation within a sedimentary belt which is enclosed in volcanics.	1962: discovery. pre-1981: dd, geoph, geochem. 1981: dd 55 holes.	more than 1,000,000 at 0.20 oz/t Au 1981 (G & M 27/02/81)	Prel feasibility studies, metallurgical and mining tests and further dd conducted in 1982.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
ONT-472	RANDALL LAKE Pyrotex Mng & Expln CL (in 1971) 53 B/14 52°50'50" 91°11'00"	Stringers and veinlets of calcite and qtz, weakly mineralized with py and cp, in a shear zone along a volcanic-gabbro contact.	1957-59: stripping, dd, airborne EM, ground EM and mag, trenching. 1967: samples, geol rept, dd.	10,000 Cu, grade unstated 1968 (Canmet IR 68-5, 1968)	Surface samples gave a weighted average of 1.7 oz/t Au, 13.19 oz/t Ag and 2.06% Cu.
ONT-473	GOLSIL-BERENS RIVER MINE Zahavy ML Getty ML 53 C/13 52°50'30" 93°38'10"	Qtz, py, gal, sph, tetrahedrite, dyscrasite, Au and Ag in erratic lenticular ore shoots 3'-25' wide by 60'-350' long. Mineralized zones trend E-W across rhyolite.	1927-48: trenching, surveying, dd; No 1 shaft to 1,898', 17 levels, winze to 3,246' with 8 levels; No 2 shaft to 511' with 3 levels; extensive u/g dev, prod Au, Ag, Pb, Zn from 560,607 tons milled bt 1939-48. 1960-67: EM survey, dd, dewatered No 2 and deepened to 765', u/g expl and dev, dd. 1971: geoph work. 1974-75: mine dewatered, sampling, mapping, dd. 1980: dd. 1981: dd, airborne mag and EM surveys. 1982: dd.	(i) No 2: 600,000 dd-ind at 0.18 oz/t Au, 7.81 oz/t Ag, 2.06% Pb, 2.99% Zn after 20% dilution to 1,000'. (ii) No 1: 75,000 at 0.10-0.12 oz/t Au, 4.0-5.0 oz/t Ag in old workings. (iii) No 4 vein: 800' x 4' at 0.12 oz/t Au, 9.71 oz/t Ag, 0.18% Pb, 1.92% Zn to dd-ind depth of 300'. 1968 (Golsil ML 06/06/68 prospectus)	Getty conducted u/g exploration in 1982.
ONT-474	SENET (SETTING NET LAKE) Minorex L (in 1970) 53 C/13 52°45'50" 93°32'30"	Main showing consists of 2 lenses of py, po, cp with some Au and Ag as disseminations or stringers in weakly sheared silicified metabasalt. Multiple auriferous qtz veins are in qtz porphyry 800' SE of main showing.	1929: discovery, stripping, trenching. 1944-46: trenching, sampling, dd. 1952: dd. 1956-57: geol; ground mag, EM, SP and electrical resistivity surveys; dd. 1968: airborne spectrometer and VLF surveys. 1970: airborne/ground EM and mag surveys.	400' x 4-5' at 0.94 oz/t Au, 5.23 oz/t Ag 1946 (Ont SMDR 000503; MRC 2, p 69, 1957)	Drilling indicated that grade dropped with depth. Vein shape and gold content appeared to be erratic.
ONT-475	SETTING NET LAKE Caspian Res L 53 C/13 52°49'25" 93°34'50"	A granitic stock is mineralized over a length of 8,000' and a width of up to 1,500'. Mo and py occur in veins in porphyritic granodiorite and qtz monzonite at the north end of stock.	1968-69: dd of undisclosed amount. 1977-78: line cutting, geol mapping, IP, dd.	dd-ind: 100,000,000 at 0.09% MoS_2 to 600' 1969 (NM 23/03/78)	Some copper is disseminated between the veins. Caspian held by option in 1981.
ONT-476	BORLAND LAKE Noranda Expl CL (in 1969) 53 D/16 52°56'08" 94°06'30"	Gal in qtz-rich lenses in biotite paragneiss.	1946-47: dd. 1961-69: trenching, EM, geol surveys, dd.	238,000 at 9.0 oz/t Ag 1964 (NM 18/08/68)	Zone 4-25' wide, 1,000' long and is up to 250' deep.

ONT-477	LINGMAN LAKE Twin GML 53 F/15 53°52'00" 92°53'10"	Gold occurs within four shear zones in mafic metavolcanics cut by qtz porphyry. Silicification, some qtz-carbonate with po, py, asp, cp. Widths of 5-6'.	1945-49: dd, 415' shaft, 3 levels, u/g dd, drifting, crosscutting, raising. 1962: limited surface work. 1973-74: feasibility study, dd.	prov: 148,000 at 0.41 oz/t Au (cut) dd-ind: 296,000 at 0.41 oz/t Au to east and on strike of u/g workings plus 130,000 at 0.31 oz/t Au (cut) to west; all above 600' 1982 (NM 16/12/82)	The conclusion of the feasibility study was that the deposit was economic at a rate of 300 tpd. Financing was arranged in 1981 to equip with 200 tpd mill and company plans to develop property.
	MANITOBA				
MAN-1	LUCY No 1 Tantalum Mng Corp Can L 52 E/11 49°30.96' 95°28.37'	Spodumene in pegmatite intruding Archean metavolcanics.	1943-57: staking, trenching, dd, optioned by Whiteshell Lithium ML in 1957.	ind: 250,000 at 1.75% Li_2O c 1956 (NM 18/05/61)	Deposit lies 83 mi E of Winnipeg.
MAN-2	SUNBEAM Whiteshell Ventures L 52 E/11 49°44.1' 95°15.4'	Gold in a pipe-like body of silicified qtz monzonite containing disseminated pyrite near edge of PC Falcon Lake stock inner core.	1912-23: staking, stripping, pitting, sampling. 1928-43: sampling, dd, incline shaft (62°) to 425' down dip, 4 levels, small shipment in 1936 (4,693 tons at 0.17 oz/t Au and a little Ag). 1976-77: limited dd.	ind: 550,650 at 0.293 oz/t Au c 1944 (NM 20/02/75) or developed: 110,000 at 0.256 oz/t Au (Man ES 80-1)	Deposit 2 mi SW of West Hawk Lake; shafts and vent raises closed by concrete slabs in 1963 by Man Mines Br.
MAN-3	CHROME GROUP Olive Henderson Groff Zeemel 52 L/5 50°27.4' 95°33.6'	Chromite and chromite-bearing peridotite occur as layers in a 2,100' main band with an average width of 8.7' near the centre of the Precambrian Bird River Sill which is intruded into the metavolcanic part of the Rice Lake Series.	1942-43: staking, sampling, trenching, drilling, bulk sampling, metallurgical tests. 1958: dd. 1981: optioned by Dynamic Mng Expl L.	meas & ind: 2,086,928 mt at 18.2% Cr_2O_3 to 198 m plus inf: 1,121,625 mt at 18.2% Cr_2O_3 to 305 m 1942 (Man OFR OF 82-1, 1982)	Cr:Fe ratio is too low (varies from 1.13:1 to 1.2:1). Cross-faulting of the chromite layers may cause problems during mining. In 1982 Dynamic Mng Expl L entered into a joint venture development agreement with Combustion Engineering Superheater L.
MAN-4	ORE FAULT Bird River MCL 52 L/5 50°28.6' 95°30.5'	Sill-like bodies of gabbro and ultramafic rocks (Bird River Sill) intrusive into the Bird River Greenstone Belt. Lens of massive po, also py, pn, sph, cp, violarite and smythite.	1923-48: staking, some work. 1953-56: optioning, dd. 1968-71: mag and EM, dd.	1,640,000 at 0.48% Ni, some Cu to 400' 1972 (Bird River MCL, Prospectus 1972)	Possibility of 0.2% Cu.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-5	PAGE Manitoba Chromium L 52 L/5 50°29.1' 95°30.8'	Chromite and chromite-bearing peridotite occur as layers in a 2,500' main band with average width of 6.1' near centre of Bird River Sill.	1937-43: staking, channel sampling, 1/2 ton sample to Canmet; option by HBED in 1942, dd, metallurgical testing. 1951: geol mapping by J F Davies. 1954: dd, horizontal loop geoph. 1967: Man Chromium L (subsidiary of HBM&S) re-checked EM surveys, dd. 1970: geol mapping by D L Trueman.	dd-ind: 1,583,186 mt at 25.2% Cr_2O_3 undil to 99 m plus inf: 4,025,610 mt at 25.2% Cr_2O_3 undil up to 305 m 1943 (Man OFR OF 82-1, 1982)	Deposit 6 mi E of Oiseau Lake.
MAN-6	BIRD LAKE Petra Chromite L 52 L/6 50°28.0' 95°23.0'	Chromite bands in peridotite within the PC Bird River Sill intrusive between metavolcanics and metasediments of the Rice Lake Group. (10 bands to 2' wide grading up to 25% Cr_2O_3).	1921-22: staking pitting. 1942-43: mag survey, dd.	meas: 4,497,453 mt to 61 m ind: 1,333,389 mt to 6.1 m inf: 11,661,686 mt to 183 m, all at 7% Cr_2O_3 1982 (Man OFR OF 82-1, 1982)	Deposit lies just W of Oiseau Lake and 17 mi ENE of Lac Du Bonnet; the tonnage and grade figures are approximate.
MAN-7	BUCK-COE-PEGLI Lithium Corp of Can L 52 L/6 50°25.4' 95°23.5'	Series of pegmatite dykes in Archean metavolcanics. The dykes are well zoned and contain lithium, mica, spodumene, amblygonite, some tourmaline, beryl and cassiterite.	1926-40: staking, trenching, pitting, small amount quarried. 1955-56: dd outlined tonnage.	ind: 810,000 at 2.13% Li_2O c 1956 (NM 03/08/61)	Idle since 1960; renewed lease in 1968.
MAN-8	MASKWA WEST Maskwa Nickel Chrome ML 52 L/6 50°28' 95°27'	Disseminated marcasite, py, violarite, pn, po, cp, in matrix of talc, carbonate, chlorite, and serpentine mnrls in metaperidotite basal unit of Bird River Sill.	1974: discovered by dd. 1975-76: mng of 400,000 at 1.11% Ni, 0.23% Cu ceased in June 1976.	ind: 900,000 at 1.34% Ni, 0.23% Cu, under the o/p 1976 (NM 15/07/76)	The Maskwa o/p is located about 1/2 mi from the Dumbarton Mine shaft. At the time of closing in 1976 the tonnage under the o/p was not considered economic.
MAN-9	TANCO Tantalum Mng Corp of Can L 52 L/6 50°25.7' 95°27.2'	Tanco pegmatite is bi-lobate shallow north-dipping double plunging feature 100 m thick and 1,440 m along strike within amphibolite in the Archean Bird River greenstone belt. The pegmatite has nine zones of different mnrl composition forming shell-like concentric envelopes or flat lenticular bodies. Products of economic significance incl tantalum,	1928-30: tin found in samples, shaft to 165', 10 tpd pilot plant. 1955-79: pollucite discovered by dd and tantalum recognized; pollucite stockpiled and ore sold, bulk sampling; Chemalloy Mnrls L formed and later Tantalum Mng Corp of Can L; second shaft to 553', 2 levels, ramp decline; 510 tpd mill started 1969 pro-	(i) Tantalum: proven, prob poss ore at the end of 1981 was 1,154,000 at 0.144% Ta_2O_5 (CMH 1982-83) (ii) Spodumene: 5,474,340 at 2.67% Li_2O undiluted plus 1,000,000 tons of similar grade 1977 (iii) Lepidolite: 107,700 at 2.24% Li_2O plus rubidium and gallium 1977	Due to reduced demand, effective Dec 31, 1982, Tanco closed entire mng and concentrate operations at Bernic Lake for a minimum of 1 yr.

		lithium, beryl, cesium, tin, columbium, rubidium and gallium.	ducing tantalum concentrates, increased to 700 tpd; litigation resolved in 1972; lithium chemical pilot plant testing Tanco ore.	(iv) Pollucite: 350,000 at 23.89% Cs_2O undiluted, plus 60,000 tons of slightly lower grade 1977 (v) Beryllium: 920,000 at 0.20% BeO (C T Williams, Manager of Tanco, 25/03/77, written commun; WM Apr/80, p 16)	
MAN-10	BON (DIANA-GEM) Rock Ore Expl & Dev L 52 L/11 50°42.6' 95°10.0'	Mineralized qtz veins in shear zones cutting gabbro. Sulphide mnrls are pyr, po, op, asp, sph, gal. Free Au in dump materials.	1934-36: 775' shaft, 6 Ls, 50 tpd mill, prod. 1968, 76: tailings sampled.	tailings: 30-50,000 at 0.124 oz/t Au 1968 or max 20,000 tons at 0.165 oz/t Au 1976 (NM 20/01/77)	
MAN-11	EAGLE (CAT LAKE, NEW MANITOBA) Eldorado GM Inc 52 L/11 50°36.2' 95°28.9'	Cp, pn, po disseminated through a small gabbro plug in basalt within the Archean Rice Lake Group.	1943: discovery, trenching, 4 shallow ddhs. 1956: shaft to 632', 4 L's. 1971-72: surface expl and dd.	645,800 at 0.58% Cu, 0.24% Ni 1972 (R A Crouse 21/11/72 in Merger Brochure 29/01/73, Fundy Chem Corp L et al)	Deposit lies SW of Cat Lake and 10 mi NW of Oiseau Lake. In 1957, a concentrator was 85% completed when operations were suspended due to decrease in world nickel prices.
MAN-12	EAGLE NO 1 Tantalum Mng Corp of Can L 52 L/11 50°37.0' 95°28.2'	Spodumene-bearing pegmatite dykes and lenses in granite and in metavolcanics.	1943-47: staking, geol and mag surveys, dd, trenching. 1954: lease assigned to Lithium Corp of America, Inc. 1977: lease cancelled, not open to staking.	ind: 600,000 at 1.4% Li_2O to 200' 1947 (NM 11/12/47)	Structural conditions suggest additional tonnages at depth.
MAN-13	EUCLID LAKE Olive Henderson Groff Zeemel 52 L/11 50°34.3' 95°21.6'	Chromite as stringers, ribbons and bands within and near the top of a peridotite layer within the lower portion of the Bird River ultramafic sill of PC age. Stratiform zone comprising two chromite bands (5-6' and 6-7') separated by 6-7' of chromiferous peridotite.	1942-43: discovery, dd. 1951-52: mag survey, dd, some metallurgical work. 1981: optioned by Dynamic Mng Expl L; re-evaluation.	(i) Main: meas & ind: 9,082,800 mt at 4.57% Cr_2O_3 to 244 m plus inf: 4,541,400 mt at 4.57% Cr_2O_3 (244-366 m) (ii) West: meas & ind: 252,335 mt at 8.15% Cr_2O_3 to 122 m 1982 (Man OFR OF 82-1, 1982)	This tonnage potential based on dd. Cr:Fe ratio is low, may be suitable as a ferrochrome product. Considerable tonnage available to o/p mng. Renewed interest in Cr as strategic metal with new metallurgical method of treating low grade Cr mineralization. In 1982, Dynamic Mng Expl L entered into a joint venture development agreement with Combustion Engineering-Superheater L.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-14	IRGON Lithium Corp of Can L 52 L/11 50°36.7' 95°25.9'	Pegmatitic dyke composed of alternating lenses of spodumene mixture and a coarse granitic rock within Archean metavolcanics.	1926, 1937-38: staking, lease acquired by Lithium Corp. 1956-58: dd, shaft to 241', crosscuts and drift on 200' level.	dd-ind: 1,203,500 at 1.51% Li_2O to 600' 1957 (CMH 1958)	Deposit lies N of Cat Lake, about 10 mi NW of Oiseau (Bird) Lake.
MAN-15	MAYVILLE Maskwa Nickel Chrome ML 52 L/12 50°38.1' 95°36.8'	Sulphides (po, pn, cp) as replacement bodies in andesite and gabbro of the Archean Bird River Sill.	1917-37: staking, sampling, dd, geol and geoph work. 1951-56: geoph survey (EM), dd. 1965-66: airborne mag survey, lease renewed for 21 years.	ind: 300,000 at 2%+ Cu-Ni, plus Au and Ag values 1935 (WPG FP 23/11/35)	Deposit lies 3.5 mi NNE of Maskwa Lake and 15 mi NE of Lac Du Bonnet.
MAN-16	SPOT Tantalum Mng Corp of Can L 52 L/12 50°36.8' 95°34.9'	Spodumene distributed throughout pegmatite dykes cutting volcanic greenstones surrounded by a granite batholith.	1943-56: staking, trenching, stripping, geol survey, dd.	(i) Main Dyke: ind 2,037,000 at 1.302% Li_2O to 825' (ii) North Dyke: ind 665,323 at 1.245% Li_2O to 450' 1955 (WPG FP 24/09/55; Man Open File Rept 77/2, p 5)	The two dykes have an additional 1.2 million tons inferred to the 1,000' level. The low iron content of the spodumene makes it potentially valuable for glass making and ceramics.
MAN-17	GOLD LAKE Gold Lake Res L 52 L/13 50°58.3' 95°38.8'	Gold associated with sulphides (mainly py) in lenses and pods of qtz in the Pilot-Smuggler shear that transects dacite and rhyolite of PC Rice Lake Group.	1914-20: staking, 2 shafts (20' and 50'), pits, trenches. 1934-36: sampling, shaft to 350', drifting at 150- and 300'; dd to 450- and 600' in attempt to find ore zone that was lost at depth of 70'.	260' x 68" at 0.42 oz/t Au plus 140' of similar grade, both from surface sampling 1934 (NM 25/10/34)	U/G explorations revealed that the mineralized shoots at surface did not persist to any significant depth.
MAN-18	MOOSE Auguste CML 52 L/13 50°57.4' 95°35.9'	Gold, cp, py in qtz vein in shear zone; the latter cutting dacite of the Rice Lake Group and intrusive tongues of qtz porphyry.	1914-16: staking, pitting, trenching, 2 shafts (25' and 100'), drifting. 1936-43: sampling, dd. 1961-62: staking, dd.	ind: 18,500 at 1 oz/t Au 1934 (NM 10/05/34)	Deposit 3.5 mi SE of Rice Lake; tonnage and grade figure based on 1914-16 work; in 1974 Scope Res L carried out surface work and drilling on group of claims (includes Moose); lease cancelled, not yet open to staking (1977).
MAN-19	PACKSACK (MONTCALM) Auguste CML 52 L/13 50°49.7' 95°42.5'	Gold, py, cp in lenticular, en echelon qtz veins in a shear zone cutting PC porphyritic dacite.	1917: staking. 1927-28: pitting, sampling, trenching. 1935-40: dd, shaft to 525', u/g dev.	prob: 24,000 at 0.36 oz/t Au, and 5,000 at 0.17 oz/t Au to 435' 1937 and 300,000 at 0.3 oz/t on the stockpile 1979 (Packsack ML 1937 AR; Winnipeg Free Press, 10/10/79)	Mr Rylander of Victoria, B.C. in 1978 started mng the stockpile created during u/g dev. A home made operation during the summer using water from a hose to force material from the stockpile into a small ball drum and then into a sluice.

MAN-20	CRYDERMAN Noranda Expl CL 52 L/14 50°58.7' 95°23.4'	Free Au and tellurides in cracks in qtz lenses within a shear zone in andesite of the Rice Lake Group.	1925-36: staking, shaft to 260', drifting on 2 levels, dd, trenching, stripping, sampling; 373 oz Au produced in 1932. 1959: surface sampling.	(i) 262' x 3.3' at 0.56 oz/t Au 1959 (ii) 220' x 25" at 0.52 oz/t Au 1931 (NM 02/07/59)	Deposit lies 14 mi ESE of Rice Lake.
MAN-21	MACKETTA J C Gibson 52 L/14 50°55.5' 95°23.2'	Gold, py, cp, sph scattered in short qtz lenses in shear zone that cuts across contact of PC schisted lavas and granodiorite. In 1940 the engineers suggested that the shear zone should contain better "ore" near the gabbro, 500' further out under the lake.	1926-35: staking. 1938-39: dd. c 1963-64: mapping, sampling, mag and EM surveys.	450' x 33.5" at $10.24/t Au to 400' 1939 (Winnipeg Tribune 02/03/39)	42,000 at 0.29 oz/t Au (an approx based on Au at $35/oz). Work by Mackette GML curtailed in 1940 due to the company's poor financial position.
MAN-22	JEEP MINE Augusta GML 52 M/3 51°02.6' 95°29.6'	Several lenticular qtz veins in parallel shear zones in mafic to intermediate plutonic host rocks. Gold is associated with sep, also in native form. Veins carry some py, po, sep, cp.	1948-50: 591' shaft, 4 L's. 1980: acquired by Gold Lake.	N/A	Production of some 18,000 t grading 0.82 oz/t from 1948 to 1950; trucked to San Antonio mill.
MAN-23	LULEO Calverley Prospecting L 52 M/4 51°05.2' 95°45.3'	Gold-qtz vein along one of several extensive shear zones in qtz-diorite pluton.	1955: staking. 1917: stamp mill erected, shaft to 85'. 1919: shutdown. 1921: mill replaced, shaft to 525' drfiting and crosscutting. 1925: shutdown. 1928: dewatered, dd, surface work, EM. 1938: hydro-electric mill for 100 tpd, dd to 717'.	N/A Au	Luleo shaft located 3,500' NW of Little Beaver Lake and 2½ mi NE of Prov Rd 304. Au ore at $10/ton milled in 1923.
MAN-24	RITA NO 1 (INDEPENDENCE) Carl D. Huston 52 M/4 51°00.3' 95°38.2'	Gold and py in lenses and stringers of qtz along a shear and fracture zone. Bedrock is rhyolite lava with dykes of porphyritic andesite.	1934-37: staking, pitting, trenching, 30' shaft, dd. 1957-64: restaking, dd. 1972: restaking.	2,850 at 0.74 oz/t Au c 1938 (GSC Mem 210, p 62, 1938)	Structure containing this shallow lens traced 2,200' on surface, and to a depth of 680' by drilling. In 1974 Scope Res carried out surface work and drilling on group of claims (includes Independence).
MAN-25	SAN ANTONIO and FORTY-FOUR Brinco L 52 M/4 51°01.4' 95°40.7'	Gold-bearing qtz veins in shear and fracture zones within diabase sill intruding tuffaceous rocks of Rice Lake Gp. Wallrocks are albitized, carbonatized and pyritized.	1911: discovery. 1926-68: San Antonio: 4 shafts, 4 winzes, the deepst L (26th) at 3,864', 150 tpd mill expanded to 550 tpd; Forty-Four: the 5th winze from 26th L to 5,070'	(i) San Antonio: 11,312 at 0.20 oz/t Au broken; 187,000 at 0.25 oz/t Au unbroken; 1968 (ii) Forty-Four: 724,393 at 0.23 oz/t Au between	The San Antonio gold mine, town of Bissett at Rice Lake, produced from 1932-68. Feasibility study and construction rehabilita-

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-25 (cont'd)			opened new gold zone in 1960. 1968-June: fire destroyed hoist room, mine closed after prod more than 1.2 million oz Au from more than 4.5 million milled. 1980-81: feasibility study and expl, 500 tpd concentrator installed. 1982-Jan: mine reopened. 1983-May: operations in upper levels to discontinue, lower levels to be re-evaluated.	27th and 33rd L; 1976 (NM 12/04/73 and 15/12/77) (i) San Antonio: prov, prob & poss: A shaft: 242,699 at 0.22 oz/t Au B shaft: 178,291 at 0.19 oz/t Au C shaft: 182,711 at 0.20 oz/t Au D shaft: 226,745 at 0.21 oz/t Au c 1981 (NM 16/12/82)	tion program, a joint venture of Brinco and New Forty-Four ML (former owner of the property) led to mine reopening in Jan 1982 with Brinco becoming owner and manager in late 1982. Mine to close in May 1983 due to high costs and low returns.
MAN-26	SANNORM Wynne Drilling L 52 M/4 51°01.6' 95°37.5'	Gold-bearing veins in and beside the PC meta-diabase sill that crosses the San Antonio and Forty-Four properties.	1934-35: trenching, pitting, dd. 1944-49: 21 year lease, mag survey, dd, shaft collared and mng plant installed only. 1961, 1965: ground geoph survey, 21 year lease.	600' x 4.5' at 0.288 oz/t Au 1947 (NM 27/11/47)	dd in 1949 indicated zones on 4 levels to 1,000' depth; 250' to 500' x 2.8' to 5.0' at 0.17 to 0.34 oz/t Au. Property of economic interest because of similarity to San Antonio.
MAN-27	LINKLATER ISLAND Inco L 53 E/15 53°56.1' 94°45.7'	A sulphide zone (10,000' x 200' x 2,000') in a serpentinized peridotite sill. Millerite, pn, nickeliferous po, py, cp and mag disseminated in the zone.	1952-61: staking, geoph survey, dd; claims leased in 1961.	N/A Ni-Cu	Linklater Island is in Island Lake; a body of low grade Ni-Cu outlined by 42,000' dd, by Inco 1956-60 (J F Davies et al, p 55, 1962).
MAN-28	JOWSEY ISLAND Wambel GL 53 L/9 54°39.4' 94°17.1'	Gold and sulphides in qtz that fills fractures in qtz felsite dykes cutting basalt of Hayes River Group.	1932-36: discovery, trenching, dd, shaft to 233' with 2 levels, drifting.	(i) 300' x 4.5' at 0.36 oz/t Au to 90' 1934 (ii) 113' x 5.5' at 0.49 oz/t Au on 100' level (iii) 74' x 6.4' at 0.24 oz/t Au on 200' level 1936 (Man Rth AR 1936, pp 83-84)	Jowsey Island is in Gods Lake.
MAN-29	BIL (M 7892) Inco L 53 L/16 54°51.7' 94°10.4'	Spodumene in pegmatites.	1959-60: dd.	N/A Li	Deposit of moderate size and grade on the N shore of Gods Lake (Man Mines Br Rept, p 57, 1962).

MAN-30	FOX GROUP Esso Res Can L 62 P/1 51°09.3' 96°03.6'	Cp, py, po in peridotite.	1924: staking, pitting, trenching. 1938: EM, dd, pitting, trenching.	N/A Ni	Ni-bearing zone is 2 mi SE of E end of English Lake and 5 mi ENE of Curries Landing on Prov Rd 304.
MAN-31	MYERS ISLAND (LYNX 34) SMD Mng CL 63 I/16 54°45.8' 96°01.2'	Qtz-carbonate-sulphides in pipe-like body plunges 35-50° W to a depth of 200' where it has been faulted off. This pipe-like body is situated near contact of PC qtz-sericite schist and a basic dyke. Massive to disseminated py, cp, plus minor tetrahedrite and bornite are present.	1934-74: staking, stripping, trenching, mag, EM and geol surveys, dd.	400,000 at 2.56% Cu 1964 (Man GP 2/74, p 38)	Myers Island is located in Oxford Lake.
MAN-32	RESERVATION 34, AREA 1 Amax of Can L 63 J/3 54°05.3' 99°11.2'	Under 200' overburden and Paleozoics. Several mineralized zones in serpentinite. Disseminated pn and millerite with minor violarite and heazelwoodite.	1966-69: airborne geophysics, ground EM, mag, IP, dd. 1969-70: discovery of deposit, dd.	dd-ind: 7,300,000 at 1.33% Ni (1% cutoff) to depth of 1,200' 1975 (CIM Bull, Sept 1975, p 77)	Extension of Manitoba Nickel Belt under Paleozoic cover; deposit 100 mi SW of Wabowden. Open at depth, not fully explored along strike.
MAN-33	COPPER-MAN Falconbridge L 63 J/12 54°39' 99°52.4'	Sulphides (cp, py, sph) associated with qtz in andesite of Amisk Group; in schist zone at contact with basaltic tuffs; and in hanging wall of diorite dyke.	1926-31: staking, trenching, geoph survey, dd. 1948-70: considerable dd, EM, mag.	(i) 170,000 at 3.13% Cu, 4.71% Zn to 800' (ii) 74,200 at 1.49% Cu, 3.92% Zn to 560' (J D McCannell, 27/04/67, Rept to Directors of Copper-Man ML)	Deposit is at SW end of Wekusko Lake. A letter dated 03/03/71 by McCannell to Copper-Man ML reviews his previous work but reports 4.17% for Zn in (i), and 3.19% for Zn in (ii). Deep drilling indicated good grade and width to 1,200'.
MAN-34	FERGUSON MINE (MOSS 1) Dawn ML 63 J/13 54°57.4' 99°51.2'	Gold and scheelite in narrow qtz stringers in a zone 1,500' long x 20' wide within metavolcanics, and derived gneiss and schists.	1916: staking. 1928-30: staking, pitting, trenching, shaft 7' x 11' x 8'. 1942-51: trenching, stripping, blasting, sampling, "ore" broken, 15-ton mill installed but no prod recorded. 1976: restaked by W B Dunlop.	6,000 at 1.5 oz/t Au on the dumps 1951 (NM 29/03/51)	The deposit is located on Herblet Lake, N of Wekusko Lake.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-35	FERRO MINE Norman ML (50%) 63 J/13 54°47.8' 99°42.1'	Gold in qtz-filled shear zones and tension fractures in andesite of Amisk Group along the axis of a syncline.	1923-33: staking, sampling, stripping, trenching, open cut, prod from 10 ton mill, shaft to 40'. 1939-64: dip needle survey, dd another shaft to 543', 4 levels, small prod from 50-75 tpd mill. 1973-74: acquired by Crowduck Bay ML, shaft dewatered to 150', sporadic milling of ore from pit. 1980-81: u/g expln; channel and drill sludge.	prov: (i) 5,000 on dump at 0.26 oz/t Au, (ii) 45,000 at 0.50 oz/t Au u/g plus 35,000 to 45,000 ind at an unstated grade (Crowduck Bay ML, Prospectus 24/04/74, OSC 09/05/74)	The grade from previous calculations was 0.430 oz/t Au (uncut) or 0.275 oz/t Au (cut grade). In 1974 the mine closed due to legal and financial difficulties; Crowduck Bay ML in receivership; production feasibility studies by Bonn Energy Corp in 1980.
MAN-36	GOLD REEF J B Kobar and Jim Corman 63 J/13 54°50.5' 99°44.1'	Spodumene, minor beryl in pegmatite dykes.	1931-42: discovery, staking, stripping, dd; minor scheelite found with ultraviolet lamp. 1976: Sherritt applied for leases.	ind: 225,000 at 1.2% Li_2O 1942 (Man GP 2/73, p 30, 1973)	Sherritt Gordon ML reported that spodumene could be produced commercially by sink and float concentration (GSC P 55-26, pp 3-4).
MAN-37	LAGUNA MINE Norman ML 63 J/13 54°47.2' 99°46.1'	Gold on fractures in a qtz vein, in association with asp, along contact between Archean qtz-feldspar porphyry and volcanic extrusives and sediments; vein then strikes into the porphyry.	1914-26: staking, stripping, trenching, two shafts (main shaft to 423' with 2 levels), 30 tpd steam driven mill, gold recovered during 6 of these years. 1934-40: shipment to Ottawa for testing; a new shaft (Laguna) to 1,250', with at least 7 levels, new mill (90 tpd at capacity), u/g dd; produced from 1936 to 1940 (Au and Ag). 1968: restaking by W B Kobar. 1973-74: surface stockpile optioned to Crowduck Bay ML, sampling. 1981: geoph, dd.	45,000 at unstated grade Au (broken material on surface), 83,000 at 0.4 to 0.5 oz/t Au, u/g 1973 (NM 10/01/74)	The mine is situated near the E shore of Wekusko Lake. The u/g tonnage figure is based on old records and another analysis after dewatering in 1973.
MAN-38	LIT (GREEN BAY) J A Syme 63 J/13 54°51.3' 99°38.5'	Spodumene, some beryl, in zoned pegmatite dykes that cut Archean greenstones near faults (some columbite-tantalite noted in thin sections).	1953-57: staking, bulk sample sent to Ottawa; dd; numerous tonnage estimates.	2,000,000 at 1.4% Li_2O in dyke No 1 (Green Bay Mng & Expl L, 1956 AR)	The main dyke was investigated to a depth of 1,000' by dd. There are at least 7 zoned pegmatite dykes on the property.
MAN-39	McCAFFERTY H L Thomson 63 J/13 54°49.93' 99°41.00'	McCafferty vein traced 1,600' through Archean dacite and dykes of 'qtz-eye' granite or porphyry. Sparse py, asp, cp and gal in the qtz. Free gold found along fractures in qtz and in the porphyry.	1915-28: staking, trenching. c 1917: No 1 shaft sunk 27'. 1930: No 2 shaft sunk 90'. 1930s: trenching, sampling, dd. 1981: sampling at 90' L, No 2 shaft.	1934: dd ind: 20,000 at 0.199 oz/t Au across 4.5' for 450'.	Property is 1.5 km NNE of McCafferty Lake. Channel sampling in 1981 gave average 0.3 oz/t Au over average width of 3.9'. (NM 12/03/81)

MAN-40	RICE ISLAND Inco L 63 J/13 54°49' 99°55.2'	Po, cp, pn as lenses and veinlets in PC qtz diorite and some sulphides in metasediments near the contact.	1917-29: discovery, staking, trenching, dd. 1949: ground mag and EM, dd. 1962-74: EM survey, dd.	N/A Cu-Ni	Rice Island is in Wekusko Lake; tonnage and grade unknown for Ni-Cu; also contains values in Zn, Ag and Au.
MAN-41	VIOLET H L Thompson 63 J/13 54°51.01' 99°42.72'	Spodumene-bearing pegmatite dykes.	1955-56: staking, dd, bulk sample to Ottawa for testing. 1969: restaking, trenching.	ind and inf: 5,869,000 at 1.205% Li_2O to 1,000' 1956 (NM 03/05 and 07/06/56)	Deposit at Crowduck Bay, Wekusko Lake; test on bulk sample in 1956 indicated that beneficiation by flotation possible.
MAN-42	BUCKO AND BOWDEN LAKES Bowden Lake Nickel ML 63 J/15 54°52.8' 98°39.4' (Bucko Shaft)	Disseminated to massive sulphides (po, pn, cp, py) occur in serpentinized peridotite and also in the gneissic country rock.	1958-76: staking, airborne EM and mag, dd, metallurgical tests; uncompleted Bowden shaft to 347'; Bucko shaft to 1,117', crosscutting, drifting and u/g dd.	(i) Bucko: 30,000,000 at 0.8% Ni to 2,000' incl an ind 2,316,500 at 2.38% Ni to 1,000' 1970-72 (FP Surv Mg 1976, p 171; NM 03/05/79) (ii) Discovery: 2,000 T/VF at 0.89% Ni plus 1,030 T/VF at 1.36% Ni 1962 in three zones to at least 800' (W R Newman, 21/12/62 for National Malartic GML in Prospectus for 1962) (iii) Bowden: ind: 80,000,000 at 0.6% Ni, to 1,000', open laterally and at depth 1970 (NM 01/04/71)	Falconbridge L holds 66.9% interest in Bowden Lake Nickel ML. Fine-grained nature of mineralization has created problems in the prod of acceptable grade concentrate. Deposits contain low copper values (over 0.04%). At "Discovery", the NM (18/04/63) reported 5,000,000 at 1% Ni.
MAN-43	RESTING LAKE 63 J/15 54°49' 98°45.5'	Nickeliferous sulphides as needles and specks in large serpentinized peridotite body.	1958-71: staking, mag, EM surveys, dd.	100,000,000 at 0.25-0.30% Ni-Cu to 1,000' 1971 (D D Campbell 19/09/71 for LaRonge Mng L in VSE SMF 01/10/71)	This tonnage is suggested from 4 ddhs and appears to be overestimated. Locally large volumes of rock are reported to exceed 0.40% Ni-Cu.
MAN-44	DYCE SIDING (SYLVIA ZONE) Hudson Bay Expl and Dev CL 63 K/8 54°24.4' 100°09'	Cu-Zn zone in PC host rocks beneath 225' of Paleozoic limestone.	1972-77: staking, ground geoph, dd; discovery made in 1977.	(i) 3,500,000 at 0.65% Cu, 1.83% Zn (ii) 800,000 at 2.38% Cu, 0.13% Zn 1978 or (i)&(ii): 1,320,000 at 2.08% Cu, 1.6% Zn 1980 (Manitoba Mnrl Res L 1980-81 AR; HBM&S 1979 AR)	Property 3 mi N of Dyce Siding where dd intersected mineralization over length of at least 2,400'; open to depth at 1,600' level.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-45	FAREWELL LAKE (KOF ZONE) Hudson Bay Expl and Dev CL 63 K/8 54°29.1' 100°02.8'	Massive sulphides (Kof zone) in PC rhyolite tuff beneath 200' of Paleozoic limestone.	1974-75: staking, dd. 1979, 81: dd.	dd-ind: 283,000 at 2.03% Cu to 625' plus lower grade to 1,200' 1974 (Manitoba Mnrl Res L, 1980-81 AR)	Deposit is 6 mi SE of Farewell Lake and 5 mi N of Dyce Lake. Under option in 1981 by HBM&S which can earn 60% interest.
MAN-46	RAIL LAKE Hudson Bay Mng and Smg CL 63 K/10 54°44.9' 100°35.5'	Sulphide deposit at edge of granitized sedimentary rocks near a body of pillowed Amisk andesite.	1954-61: staking, geoph, dd.	ind: 325,000 at 3.0% Cu, 0.7% Zn to 1,000' c 1961 (HBM&S 1970 AR; CMH 1978-79, p 137)	This deposit, located 4 mi NW of Reed Lake, is open to depth; idle since 1961 when claims taken to lease (21 years).
MAN-47	REED LAKE Hudson Bay Expl and Dev CL 63 K/10 54°38.2' 100°32.9'	Sulphide deposit in felsic volcanics beneath Reed Lake. The area is underlain by Amisk Group volcanics and related intrusives of the Flin Flon-Snow Lake Greenstone belt.	1968-73: CB 159 staked; discovered 1969 by dd an EM anomaly through ice on the lake; additional dd.	1,500,000 at 2.09% Cu (diluted 10%) to 1,800', open at depth (HBM&S 1974 AR, p 14)	Property 30 mi SW of Snow Lake; uneconomic under conditions prevailing in 1974.
MAN-48	HONEYSUCKLE Hudson Bay Expl and Dev CL 63 K/13 54°52.01' 101°47.70'	Au associated with asp and biotite in schist and less frequently in a qtz vein in a shear zone in PC greenstone.	1927-36: staking, trenching, sampling. 1939: dd, mill tests in in Ottawa on bulk sample from pits. 1945: dd. 1953: acquired by Tartan Lake GML 1976: lease cancelled.	700' x 54" at $12.28/t Au 1945 (F Helen Paine, 11/07/45, written commun, in MPS Corp File, Tartan Lake GML)	Property near Tartan Lake about 7 mi NNE of Flin Flon. Mill tests in 1939 indicated that Au was amenable to a cyanidization extraction process. The charter of Tartan Lake GML was dissolved in 1977.
MAN-49	KILLARNEY-MONICA Gränges Expl AB 63 K/13 54°51.22' 101°43.80'	Gold in qtz-carbonate vein in sheared PC andesite and diorite, veins in tension fractures related to fault.	1931-33: staking, pitting, trenching, sampling. 1945: option by Nesnah Mng & Expl CL; dd. 1974-76: claims cancelled.	70 T/VF at 0.56 oz/t Au or 100 T/VF at 0.416 oz/t Au 1946 (L S Hansen, 25/07/46, unpubl memo, in MPS Corp File, Nesnah Mng & Expl CL)	Property about 8 mi NE of Flin Flon. One 9.7' core section over 0.689 oz/t Au.
MAN-50	PINEBAY (SOURDOUGH BAY) Hudson Bay Expl and Dev CL 63 K/13 54°45.8' 101°37.3'	Sulphide zone under waters of Sourdough Bay contains cp, po with massive py in PC chlorite schist and volcanics.	1967-74: dd on EM anomaly, shaft to 700' and some u/g dev; feasibility study. 1976-77: expl with Manitoba Dept Mines, Resources.	1,500,000 at 1.3% Cu 1969 or 750,000 at 3% Cu above 500' 1967 (NM 17/08/67; Cerro Corp, 1969 AR)	Sourdough Bay is on Lake Athapapuskow, about 12 mi E of Flin Flon.
MAN-51	VAMP LAKE Hudvam ML 63 K/14 54°56.3' 101°10.0'	Py, po, some cp and sph generally disseminated, but locally massive when associated with bands of silicifica-	1928: original discovery, some surface work, dd. 1951-73: staking, geol mapping, geoph; optioned to Mng Corp	dd-ind: 427,400 at 0.127 oz/t Au, 0.45 oz/t Ag, 1.23% Cu, 1.57% Zn 1970 (CMM 1981-82, p 169)	Property is 30 mi ENE of Flin Flon within 2 mi of Lynn Lake branch of CNR. Hudvam ML con-

		tion and carbonatization through shear zones in basic lavas which have been altered to hornblende gneiss.	of Can L in 1957 and to HBE&D in 1969, dd; acquired by Hudvam in 1973.		trolled (90%) by HBED, the wholly-owned expl arm of HBM&S.
MAN-52	CENTURY MINE Donker ML 63 K/15 54°52' 100°52'	Gold associated with py, gal, cp in veinlets, lenses and masses of qtz in a sheared qtz porphyry dyke in massive and schistose andesitic lava flows.	1919-34: staking, shaft to 70', crosscut and drifting, small mng plant and mill, discontinued work in 1931, removed equipment 1934. 1936-41: dd, shaft to 288'; 100 tpd mill operated for very short time. 1946-51: shaft deepened to 529', 4 levels; dd. 1980: geol, geochem, EM, mag surveys. 1981: dd.	reasonably assured: 100,500 at 0.319 oz/t (diluted) plus a probable 95,000 at a slightly lower grade (Century Mng Corp L, 1939 AR) prov-prob: 300,000 at 0.35 oz/t Au open along strike and at depth. (Ram Petroleums L, Interim Rept, 30/09/80)	6 ddhs in 1951 intersected the deposits from 600 to 1,100' vertically below the surface; components for 500 tpd mill purchased.
MAN-53	GOLD ROCK Hudson Bay Expl and Dev CL 63 K/15 54°50.7' 100°33'	Four distinct Au-bearing vein zones exposed for 870' in andesitic and basaltic lava; the zones contain schist with lenses and stringers of qtz mineralized with py, po, cp, sph and gal.	1928-34: staking, trenching, sampling. 1959: acquired by Norris Lake GML.	(i) 55' x 3.12' at 0.434 oz/t Au (ii) 170' x 14" at 1.5 oz/t Au (GSC M186, p 48, 1935)	Several small Au-bearing deposits occur near North Star Lake in an area 3 mi long and 1 mi wide.
MAN-54	NORRIS LAKE Bar Res L Gränges Expl AB, E&B Expls L 63 K/15 54°53' 100°30.30'	N/A	1980-81: dd.	1981: 250,000 at .016 oz/t Au, 0.606 oz/t Ag, 2.51% Cu, 4.82% Zn across 6.6', to 1,200' depth 1981 (Bar Res L, FS 250/81, VSE)	
MAN-55	BOMBER Falconbridge L 63 K/16 54°51.3' 100°11'	Tabular sulphide body (py, po, cp, sph) striking N20°E, dipping vertically, in gneiss, with andesite on hanging wall, within Flin Flon-Snow Lake greenstone belt.	1954: staking. 1954-55: staking, option by HBED, dd. 1968-74: staking, ground and aeromag, geol surv.	1,800' x 6' to 800' at 0.003 oz/t Au, 0.25 oz/t Ag, 0.04% Cu, 1.0% Zn c 1960 (Albert Koffman, c 1960, Man Unpubl Info File)	The deposit is located on Cook Lake about 6 mi W of Snow Lake.
MAN-56	DICKSTONE MINE Dickstone Copper ML 63 K/16 54°51.3' 100°29.4'	Massive sulphides (py, cp, po) in two elongate lenses in a sheared zone in silicified andesite of the Amisk Group.	1935-39: staking, dd. 1960: lease renewed for 21 years. 1965-75: optioned by HBM&S, dd, shaft 1 to 1,342' and shaft 2 to 1,166'. Prod 1970-75: 850,000 at 2.42% Cu, 3.17% Zn, 0.02 oz/t Au, 0.37 oz/t Ag.	335,600 at 4.5% Zn, 2.43% Cu, 0.31 oz/t Ag, 0.012 oz/t Au 1975 (MPS MR 185, p 23)	Milling ceased in August 1975 due to low metal prices.
MAN-57	JOANNIE Hudson Bay Expl and Dev CL 63 K/16 54°49.7' 100°02'	Sulphide zone (cp, py, po) in schists along the Anderson Lake fault. Country rock is basic lavas and derived gneissic hybrid rocks.	1943: claim first recorded. 1956-57: dd by HBED. 1962: acquired by HBED.	1,800' x 800' x 4' at 1.28% Cu c 1960 (Albert Koffman, c 1960, Man Unpubl Info File)	The deposit is located 1/2 mi SW of Anderson Lake.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-58	NOR-ACME MINE Hudson Bay Expl and Dev CL 63 K/16 54°53.2' 100°01.4'	Mineralization along Howe Sound Fault, between feldspathic sedimentary and volcanic rocks and coarse mafic pyroclastics, with fracturing of wall rocks over widths of 100' or more. Ore as silicified brecciated rock mineralized with 2% asp, 1% po, 0.25% py. Au associated with asp.	1927: discovery and staking. 1941: dd. 1945-49: mine dev. 1949-58: prod shaft 1,965', 8 operating levels, prod 627,000 oz Au, 46,000 oz Ag from 5,400,000 milled. 1960 and 1979-81: dd by HBM&S testing of arsenical concentrate stockpiled by Comiesa Corp. 1982: geoph.	(i) Toots zone: ind: 469,100 at 0.16 oz/t Au to 700'; open to depth (ii) Main zone: 2,520,000 at 0.14 oz/t Au possible below 1,780 level (iii) Stockpile: 250,000 at 0.28 oz/t Au as cyanide residues 1974 (Nor-Acme GML, 1974 AR)	Property on NE shore of Snow Lake. The Toots zone also contains approx 1 oz/t Ag to 300' horizon; mine optioned in 1980 to Hudson Bay Expl and Dev CL to test downward extensions of Main zone; to unwater shaft. Comiesa Corp optioned stockpile, attempting to develop method of extracting gold from this residue.
MAN-59	POT LAKE Hudson Bay Expl and Dev CL 63 K/16 54°46.8' 100°10.9'	Several small sulphide lenses (cp, sph, py, po) in andesite and derived schists and gneisses.	1945-47: staking. 1955-56: dd. 1963-67: restaking, acquired by HBED, dd, mag survey.	112,000 at 4.5% Zn, 1.43% Cu, 0.55 oz/t Ag, 0.11 oz/t Au (H A Pearson, 1964, Pot 1-27 cls, Man Assessment Rept 90238)	This deposit is located in the File Lake area.
MAN-60	SQUALL CREEK (JULIAN) 63 K/16 54°53.8' 100°06.4'	Scheelite-bearing qtz veins in a band of hornblende gneiss. A little Au in amphibolitic rocks near the veins.	1949-57: discovery, stripping trenching, bulk sample to Ottawa for testing, short ddhs, 105' adit and some drifting, 10 tpd mill.	5,000 at 1% WO_3 1955 (FP Surv Ms, 1955, p 139)	The deposit is found at Squall Creek at W end of Snow Lake. Drilling traced zone to depth of 70'.
MAN-61	SQUALL LAKE Camflo ML 63 K/16 54°55.3' 100°04.8'	Gold, asp, minor cp and po in qtz stringers forming lenses in a hornblende sill at contact of staurolite schist and arkosic gneiss.	1924: first staking recorded. 1941-44: restaking, trenching, sampling. 1944-46: dd. 1979: bulk sampling.	ind: 500,000 at 0.24 oz/t Au 1946 (NM 25/10/73)	Several zones were drilled. The Margaret zone, with dimensions 2,000' x 600' x 4.9', averaged 0.265 oz/t Au.
MAN-62	WIM Hudson Bay Mng & Smg CL 63 N/1 55°01.5' 100°02.6'	A lensoid stratabound zone in Amisk felsic metavolcanic gneisses within the Kisseynew sedimentary gneiss belt. This massive sulphide deposit contains py, po, cp and minor sph.	1962-69: discovery by dd airborne EM anomaly; deposit outlined by dd between 800' and 2,100' levels. A 21-year lease issued August 1968.	1,090,000 at 2.91% Cu, 0.05 oz/t Au, 0.24 oz/t Ag, trace Zn, diluted 10% 1975 (Man Publ 75-2, p 92)	The deposit is located about 10 mi N of the town of Snow Lake. It is considered economically marginal due to its size and distance from existing transportation facilities.
MAN-63	JUNGLE LAKE Hudson Bay Mng & Smg CL 63 N/2 55°09.8' 100°58.3'	Massive py, po, with stringers and blebs of cp and sph in E-W zone 1,200' x 18' dipping 40°N in Kisseynew sedimentary gneiss belt.	1957-61: staking, geoph survey, dd; a 21-year lease issued to HBM&S in 1961.	3,700,000 at 1.42% Cu, 1.1% Zn 1958 (HBM&S, 1958 AR)	The deposit is located about 5 mi NE of Sherridon. It was uneconomic in 1958 at prevailing metal prices.

MAN-64	NOKOMIS LAKE Dome Expl (Can) L 63 N/2 55°03.6' 100°52.8'	Gold associated with asp in silicified bed in hornblende-plagioclase gneiss within the Kisseynew sedimentary gneiss belt.	1952-62: staking, trenching and sampling, dd; Rio Tinto Cdn Expl L dropped option. 1971-72: restaking, acquired by Dome Expl (Can) L.	100,000 at 0.3 oz/t Au 1961 (NM 01/11/62)		The deposit is located about 9 mi SE of Sherridon.
MAN-65	BOB LAKE Sherritt Gordon ML 63 N/3 55°09.5' 101°02.5'	Two tabular sulphide lenses (cp, po, sph) within pegmatite sill-like masses intruded into gneisses. The deposit is localized along folds within the Kisseynew sedimentary gneiss belt.	1938-40: geol, geoph surveys, dd of anomalies. 1941-42: discovery, dd.	2,380,000 at 1.33% Cu, 1.18% Zn, 0.01 oz/t Au, 0.27 oz/t Ag 1942 (Sherritt Gordon ML, 1942 AR)		This deposit, 3.5 mi NE of Sherridon, consists of three lenses beneath Bob Lake.
MAN-66	GRASS Inco L 63 O/1 55°14.3' 98°21.1'	Low grade disseminated sulphides or sulphide veinlets in PC peridotite within gneiss near a body of granodiorite. The deposit is near a doubly plunging fold and on or near a fault.	1950-57: staking, geoph, dd.	N/A	Ni	The deposit is located W of Grass River, 41 mi SW of the the city of Thompson.
MAN-67	SOAB MINE Inco L 63 O/1 55°14' 98°25'	Massive to disseminated sulphides (po, py, pn, cp) in peridotite, metasediments and/or gneisses. A doubly plunging fold is located near the deposit.	1951-56: airborne magnetic survey and follow-up ground EM, dd. 1965-71: south shaft to 1,652' and north shaft to 2,083', levels at 200' intervals, exploratory deep drilling, prod from 1967-71, ore transported to Thompson for processing.	100,000 to 1,000,000 contained Ni (grades up to 1.5% Ni) 1968 (MPS Min Rept 16, pp 75-76, 1968)		Production at 4,000 tpd, however production record not published. Property on standby. Equipment removed and shafts capped, c 1982. (FP 12/03/83)
MAN-68	HAMBONE Inco L 63 O/8 55°17.3' 98°20'	Py, po, pn as breccia sulphides or as bands, stringers and disseminations within a large drag-fold in PC granitic gneiss and some in small intrusions of serpentinized peridotite.	1947: staking. 1955-58: dd, option to Maralgo ML, mag and EM surveys, deep drilling. 1959: property sold to Inco.	ind: 3,600,000 at 0.81% Ni in one deposit and 1,200,000 at 1.10% Ni in two other zones 1958 (NM 02/10/58)		The property is 38 mi SW of the city of Thompson. The mineralized zone extends to the 1,000' level.
MAN-69	BIRCHTREE MINE Inco L 63 P/12 55°42.1' 97°55.5'	Tabular sulphide deposit in PC peridotite and biotite schist stratigraphically controlled near contacts with metasediments and schists. The ore contains pn, minor cp, Ni arsenides and other Ni-bearing minerals in massive to stringer form, and as flow breccia.	1953-58: staking, geoph survey, mag survey. 1964: discovery of deposit announced. 1964-67: two shafts, the prod shaft to 2,820' with levels between 300 to 2,300' at 200' intervals. 1969-77: prod (capacity 4,000 tpd); ore trucked to Thompson mine for processing.	N/A	Ni-Cu	The mine is about 3 mi SW of the city of Thompson. Production was reduced to 2,800 tpd in 1971 due to weak Ni markets and suspended in 1977 due to poor markets and a strike. In 1978, the shaft was deepend to 3,345', then operations were suspended and the mine placed on standby.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
MAN-70	MEL ZONE Inco L 63 P/13 55°58.4' 97°46.2'	The deposit is overlain by glacial drift and the nature of the host rock is uncertain.	1961-63: staking, geoph survey, dd. 1967: a 21-year lease issued. 1969-70: dd.	N/A Ni	The deposit is about 6.5 mi NW of Moak Lake.
MAN-71	MOAK MINE Inco L 63 P/13 55°56.1' 97°34.9'	Po, py, pn and minor cp and precious metals as disseminations and stringers in serpentinized peridotite. Massive sulphides in fracture zones.	1952: discovered by geophysics, staked, one ddh. 1955-58: expl shaft to 1,325'; prod shaft started; u/g dd, lateral work on 700', 1,000' and 1,300' levels.	50,000,000 at 0.7% Ni 1955 (CMJ, Jan 1955, p 102)	The deposit is located about 16.5 mi NE of Thompson. Shortly after dev the higher grade Thompson deposit was discovered and the Moak project was postponed indefinitely.
MAN-72	MYSTERY LAKE SOUTH Inco L 63 P/13 55°49.7' 97°45.4'	Po, py, pn, cp, sph disseminated in PC serpentinized peridotite sill(s).	1928: 200' of dd. 1946-52: sampling, option to Cdn Nickel CL, mag, EM and geol surveys, dd. 1956-57: acquired by Inco L, dd.	250,000,000 at 0.6% Ni equivalent to 1,000' depth 1952 (House of Commons Debates, April 24, 1952, V 94, No 34, p 1561)	The deposit is located beneath Mystery Lake about 3.5 mi NNE of the city of Thompson. Another figure reported is 249 million at 0.46% Ni (Cove Uranium ML, 1956 AR). The editor of the Northern Miner in 1975 reported 50,000,000 tons at 0.5% Ni (Man Open File 77/2, p 15).
MAN-73	MacBRIDE LAKE Knobby Lake ML 64 B/13 56°53.1' 99°55.0'	Disseminated to massive sulphides (py, po, sph, cp, gal) in qtz-feldspar biotite-amphibole and garnet gneiss within a volcanic belt on the eastern extension of the greenstone belts of the Lynn Lake area. Main zone is 9.15' x 700' to 1,400' down dip.	1957-61: staking, option to Sherritt Gordon ML, and again to HBED; ground EM, dd. 1968: airborne Input EM and mag survey for Man Mines Br did not detect deposit. 1969-75: restaking, acquired by Knobby Lake ML, EM and mag surveys, dd. 1976-80: dd, EM.	dd-ind: 1,054,941 at 8.23% Zn, 0.32% Cu, 0.34 oz/t Ag, 0.004 oz/t Au 1979 (A R Allen 04/04/79 for Knobby Lake ML in VSE SMF 12/11/79)	MacBride Lake is situated about 40 mi E of Lynn Lake. Drilling tested only 760' of the anomalous A zone which extends both N and S for 7,500'. The deepest dd intersection at vertical depth of 1,140'.
MAN-74	LAST HOPE W Bruce Dunlop 64 C/10 56°40.6' 100°50.3'	Au-bearing qtz veins, minor sulphides, within a fracture in impure qtzite. The vein is bounded on the N by a felsite dyke.	1937-41: discovery, staking, pitting, sampling, dd.	ind: 140,000 at 0.23 oz/t Au to 150' 1939 (Man J F Davies et al 1962, p 121)	The deposit is situated about 18 mi SE of Lynn Lake. Lasthope Lake GML, a subsidiary of Sherritt Gordon ML, surrendered Manitoba charter Feb 1977.
MAN-75	F L & D H GROUPS Gränges Expl AB 64 C/14, 15 56°50.0' 101°0.5'	Sulphides, incl massive po with some cp and sph occur in metavolcanic and metasedimentary rocks of the Wasekwan Group and in mafic intrusive.	1946-54: staking, geol, mag and EM surveys, dd. 1975: restaked for Granges Expl AB.	ind: 500,000 at 0.9% Cu, 2.2% Zn c 1950 (J F Davies, Man 1962, p 122)	The deposit is located about 3 mi SE of the city of Lynn Lake.

MAN-76	FRANCES LAKE Manitoba Mnrl Res L (49%) Gränges Expl AB (51%) 64 C/14 56°49'20" 101°07'	Cu-Zn deposit near contact of qtz-plagioclase porphyry with West Lynn Lake Anticline (PC Wasekwan volcanics and sediments).	1976-78: discovery, geoph, dd. 1979-80: dd.	dd-ind: 260,000 at 0.48% Cu, 6.6% Zn 1980 (Manitoba Mnrl Res L 1979-1980 AR)	Deposit on W side of Frances Lake, 3 mi SW of Lynn Lake; mineralization intersected over length of 800' to depth of 900'.
MAN-77	GOODENOUGH Sherlynn ML 64 C/14 56°53.7' 101°05.5'	Po, py, cp, sph in hornblendite, tuffs and breccias at the contact with the "Berge Lake" granite. Some Mo reported in one ddh.	1947-54: staking, mag and geol mapping, dd. 1978: Gränges AB option, geoph survey, dd.	ind: 182,000 at 2.63% Cu, 1.21% Zn, 0.06 oz/t Au 1954 (Sherritt Gordon ML, 1954 AR)	The deposit is located about 2.5 mi N of Lynn Lake.
MAN-78	"Z" DEPOSIT Sherritt Gordon ML 64 C/14 56°49.7' 101°01.5'	The "Z" deposit occurs in PC metasedimentary and metavolcanic rocks of the Wasekwan Group just S of the Lynn Lake gabbro. Heavily disseminated cp and sph occur in qtzose and hornblendic gneisses.	1946-47: geol and geoph surveys, discovery, dd.	153,000 at 1.113% Cu, 2.491% Zn, 0.016 oz/t Au 1949 (Sherritt Gordon ML 1949 AR)	The "Z" deposit is near the former producing Lynn Lake nickel mine. A recalculation of reserves by the company showed a slight increase in tonnage but the manager of geol & expl in 1973 suggested that the figure was optimistic and half the tonnage would be more realistic.
MAN-79	AGASSIZ Comiesa Corp (held 97% by Agassiz Res L) 64 C/15 56°53.9' 100°57.5'	At least 9 Au-bearing veins containing sulphides (sph, gal, cp, po, py) in a small amphibolite body within mafic volcanics. Some of the beds have garnets which appear to be related to the "ore".	1946-71: original staking, geol and geoph surveys (mag, EM), shaft to 484', 3 levels, dd (70,000'). 1973-75: Bulora Corp L option, unwatered shaft and sampled u/g workings; option terminated. 1979-80: Sherritt Gordon option, dd.	Central zone: 2,000,000 at 0.142 oz/t Au East zone: dd-ind: 240,000 at 0.172 oz/t Au, cut grade (NM 3/03/83)	Adjoins former producing Lynn Lake nickel mine; more than half the tonnage is in the "H" vein. "At present gold prices, the deposit is considered commercially viable, and a production decision could be made in the near future." (NM 17/03/83)
MAN-80	BARRINGTON LAKE Hudson Bay Expl and Dev CL 64 C/16 56°57.7' 100°17.7'	Copper deposit in a highly altered area (shear zone) well mineralized with py in andesite within greenstone belt bounded on N and S by granitic rocks.	1946-47: staking, trenching, sampling, geol rept. 1969-72: staking, dd.	350' x 15' x 300' deep at 2.5% Cu 1972 (NM 13/04/72)	The deposit is located about 30 mi ENE of the town of Lynn Lake. Early sampling indicated low Au content.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
	SASKATCHEWAN				
SASK-1	HENNING-MALONEY MINE Flin Flon ML 63 K/12 54°42'25" 101°54'35"	Gold, cp, asp in qtz-filled shears; subsidiary to the Rio Fault, in diorite "dyke" border phase of a granodiorite body that intrudes Amisk Group	1931-41: staking, trenching, shaft to 162', two levels, drifting, 2 raises, dd, small shipments of ore to HBM&S, mine closed in 1941 and building destroyed by fire. 1964-73: dd, EM and IP surveys. 1980-82: pre-production work.	30,000 at 0.2 oz/t Au to 150' in two zones or 15,000 at 0.422 oz/t Au (millhead value) to 100' 1980 (NM 17/02/80 p A5 and 02/10/80 p 28)	The deposit is situated about 4 mi SSW of Flin Flon. Mill erection planned for fall 1983 to handle Rio Henning-Maloney and subsequently Newcor ore.
SASK-2	NEWCOR MINE D D Martin (optioned to Flin Flon ML) 63 K/12 54°43'36" 101°54'50"	Au in arsenopyrite in qtz veins stringers and lenses within chlorite schist of Amisk Group along contact of basalt flows.	1933-37: staking, trenching, inclined shaft to 460', four levels. 1947-72: 200 tpd reduction mill and 125 tpd smelter operated for a few months, some gold and arsenic produced, dd, trenching, assaying.	est: 44,000 at 0.458 oz/t Au plus 180,000 ore grade material (WM 02/83)	The mine is situated about 3 mi SW of Flin Flon.
SASK-3	RIO Flin Flon ML 63 K/12 54°42'55" 101°54'20"	Zone of faulting and alteration, containing qtz stringers, minor cp, sph, gal, a little py and Au, cuts basalt of Amisk Group that has been intruded by dykes of qtz-feldspar porphyry.	1931-40: staking, trenching, dd. 1968: acquired by Flin Flon ML. 1970-74: dd, EM. 1975: Rio Auro ML option. 1980-82: dd, pre-production work.	170,000 at 0.12 oz/t Au plus 100,000 poss 1980 (NM 02/10/80 p 28) or 85,000 at 0.25-0.3 oz/t Au (at 0.1 oz/t cut-off) (NM 27/08/81)	This deposit is located about 3,300' NNE of the Henning-Maloney mine. Access by ramp to Rio zone. Production planned when mill is constructed in late 1983.
SASK-4	RAMSAY SHOWING (QUANDT GROUP) Share Ms & Oils L and Western Nuclear Inc (in 1975) 63 L/10 54°44'17" 102°45'05"	Py, po, sph, cp and covellite mineralization related to sill-like bodies of pegmatite in shear zone in biotite-garnet gneiss. The sulphides occur as massive intergranular fillings, stringers and small fracture-filling veinlets in the pegmatite and gneiss.	1954-66: discovery, staking; option to Tombill ML in 1974; trenching, dd.	ind: 900,000 at 2.16% Cu, 1.77% Zn, 0.203 oz/t Ag, diluted 1967 (NM 16/11/67)	On Keputch Lake, 35 mi W of Flin Flon. Zone still open downward on its rake. In 1968 planned to mine 338,000 tons at 2.04% Cu and 1.60% Zn above 600' level.
SASK-5	BIGSTONE LAKE Gränges Expl AB (50%) Sask Mng Dev Corp (SMDC) (50%) 63 L/11 54°34'58" 103°11'40"	Cu-Zn mineralization in a belt of steeply west dipping fine-grained metavolcanics, overlain by 40 m of Paleozoic sandstones and dolomites.	1963-64: expl by Stelco Inc, dd. 1967: Inco staked S and SE of Discovery Zone, dd. 1966-67: Western Nuclear ML staked N and NE of Discovery Zone, dd. 1982: discovery by Gränges Expl AB.	Drill hole assays over 4-5% Zn, up to 45.5% Zn over 4 m: 3.3% Cu over 34.98 m and 4.07% Cu over 25.98 m: some Au and Ag (WM 02/83, GCNL 8/10/82)	Deposit is located about 88 km W of Flin Flon.

SASK-6	ROBINSON CREEK Suneva Res L 63 L/16 54°46'07" 102°08'50"	NW-trending shear zone in Amisk Gp mafic lavas near contact of Missi conglomerate and intrusive porphyritic granodiorite: free gold, py, asp, cp in shear zone, but concentrated within a number of narrow veins.	1915-18: staking, trenching. 1946: dd by HBM&S, metallurgical tests. 1981: linecutting, trenching, geoph, 3,088' dd. 1982: dd.	450 T/VF at 0.24 oz/t Au (across 1.54 m, with 0.1 oz/t cut-off) 1981 (J S Kermeen 9/02/81 for Suneva Res L in SMF VSE 1/05/81)	Potential for larger lower grade tonnage; tonnage and grade based on 1946, dd results. New gold zone discovered 1981. 1982 drilling identified Vein, Quartz and Bleiler zones (NM 28/10/82).
SASK-7	SCHOTTS LAKE Stall Lake ML (70%) New Scope Res L (30%) 63 M/1 55°05'45" 102°13'35"	Disseminated sulphides with zones of massive py and po plus small quantities of cp in Kisseynew-type gneisses (hornblende-biotite, biotite garnet, and calc-silicate) of possible sedimentary origin.	1953-70: staking, option to HBED in 1954, EM survey, dd; acquired by Stall Lake ML and Scope Res L c 1970, dd.	ind: 2,186,056 at 0.61% Cu, 1.35% Zn plus values in Au and Ag 1970 (NM 05/10/72)	Property about 25 mi NW of Flin Flon.
SASK-8	BROWNELL LAKE (EV GROUP) La Teko Res L 63 M/4 55°01' 103°38'	Py, po, sph, cp, as disseminations, as stringers, and in qtz veins in mineralized zone 6,000' long within chlorite-biotite-feldspar-garnet-hornblende gneisses.	1960-63: Cdn Nickel CL traced zone by dd and trenching. 1970-72: geoph survey, dd.	N/A Cu-Zn-Au	The property is E of Lac La Ronge. Assays from dd up to 3.2% Zn, 1.18% Cu over widths to 28' (NM 24/02/72, p 3).
SASK-9	MOKOMAN (KNIFE) LAKE Straus Mnrls (in 1978) 63 M/15 55°52'20" 102°44'12"	Py, po, cp, minor sph in a pegmatite-like felsic gneiss in area underlain by PC metasediments and metavolcanics.	1969-71: staking, trenching, dd, EM, mag and geochem.	ind: 6,000,000 at 1% Cu c 1971 (CMH 1974-75, p 312)	Property about 85 mi NW of Flin Flon.
SASK-10	KOMIS Waddy Lake Res Inc (75%) Energy Reserves Can L (25%) 64 D/4 56°12'20" 103°55'50"	Gold associated with sulphides and mag in qtz veins in silicified and pyritized dacite.	1958-61: staking, geol and mag surveys, prospecting, sampling, dd. 1973-75: soil sampling, IP survey, dd. 1980: bulk sample (1,031 tons) tested in portable mill. 1981 ff: dd, adit and drifting, sampling, assaying, mapping.	(i) South zone: 35.5' x 150' at 0.1236 oz/t Au (ii) Central zone: 31.7' x 200' at 0.1435 oz/t Au (iii) North zone: 47.0' x 250' at 0.163 oz/t Au 1980 (Waddy Lake Res Inc, VSE AL 125/80) or est: 2.4 million t at 0.11 oz/t Au (FP 12/03/83)	Property 3.3 mi W of narrows in Waddy Lake, about 90 mi NE of La Ronge. 1983 drilling program planned to upgrade and expand resources.
SASK-11	McKENZIE (PEG) Prairie West Expls L (subsidiary of Bison Petroleum & Mnrls L) 64 D/4 56°07'20" 103°42'04"	Py, cp, sph, po, gal, chalcocite and gahnite (zinc spinel) as fracture fillings and disseminated grains along zones of crushing and brecciation in fractured pegmatite, which is a conformable layer in biotite gneiss.	1956-58: mag and EM surveys, dd, 4 deep dd holes. 1965-66: drilling (under option to Rio Tinto Cdn Expl L)	ind: 4,300,000 at 4.32% Zn, 0.64% Cu 1966 (FP Surv Ma 1970, p 197)	Property 90 mi NE of La Ronge. The tonnage includes two zones over a slope distance of 1,000'.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-12	WEDGE LAKE PROPERTY Giant Yellowknife ML (25%) Sask Mng Dev Corp (50%) Golden Rule Res L (25%) 64 D/5 56°15'00" 103°50'45"	Gold associated with sulphide zones of brecciated, banded, cherty iron fm and in qtz veins.	1951: discovered No 1 Vein. 1952-53: discovered 2 sulphide bodies, geol, trenching, dd. 1980: grid cut, geoph, geochem, sampling over 3 known vein systems. 1981: 1,500 m drilling, discovered 2 additional zones. 1982: cat trenching, geol study, dd.	Pot: 2 to 4 million t mineralized rock: assays grade 0.08 oz/t Au to 0.68 oz/t Au for 11 holes (Golden Rule Res L AR 1982)	
SASK-13	POLLON LAKE (DEEP BAY) Deep Bay Graphite L 64 D/6 56°23'00" 103°07'30"	Highly folded metasediments (PC qtz biotite gneiss) in synclinal structure contain small flakes of graphite, as much as 25%, in certain horizons.	1956: geol work. 1965-67: photogeol, staking, airborne EM anomaly, ground EM and mag survey, dd. 1973-77: restaking; geochem survey revealed anomalous Cu; mapping, trenching, sampling, geoph survey, dd; tested bulk sample; feasibility study.	1,800,000 at 10.32% Grp to 200', o/p tonnage 1976 (NM 18/11/76)	Property W of Deep Bay at the S end of Reindeer Lake. Feasibility study in 1977 involving a 9,000 ton/year flake graphite flotation circuit. Further development is being held up by unsettled native rights claims.
SASK-14	HORN (BLEASDELL LAKE) Fosago Expls L (in 1974) 64 D/9 56°35'20" 102°21'15"	Gneiss and granulite dome containing a granodiorite plug at the centre. Pegmatite sills cut the gneiss. Mineralization (U stain and uraninite) occurs in the biotite and hornblende phases of the pegmatite.	1955-57: discovery, trenching, sampling, packsack drilling. 1969: airborne spectrometer survey and geol reconnaissance. 1974: scint, EM and geol survey.	inf: 620,700 lbs of U_3O_8 c 1957 (Sask MD Index 63-D-09-SW, U-1)	Bleasdell Lake is near the SE end of Reindeer Lake. The zone is 1,300' long and assays 0.09% to 0.2025% U_3O_8 over widths of 6.1 and 9.8'.
SASK-15	GEORGE LAKE Compulsion River ML 64 E/5 57°28'30" 103°45'22"	Sph, gal, py, po as a series of veins of variable width in qtzite of the George Lake Group within the Wollaston Lake Fold Belt.	1965-66: mineralized boulders found during prospecting; staking, geol mapping, geochem and geoph surveys; dd lead to discovery of mineralization in place.	ind: 5,000,000 at 2.65% Zn, 0.38% Pb or 2,900,000 at 3.67% Zn, 0.53% Pb, to 400' 1966 (Econ Geol, Vol 65, p 869, 1970)	Property S of Wollaston Lake. In tonnage and grade calculations a 1% Zn cut-off for low grade was used and 2% for high grade. Mineralization traced for more than 1.5 mi along strike to SW.
SASK-16	RAVEN & HORSESHOE Eldorado Res L (51%) Uranerz Expl and Mng L (49%) 64 L/4 58°09' 103°45'35"	At eastern rim of Athabasca sandstone near Rabbit Lake mine; similar setting in that uranium deposited in altered envelope surrounding fractured zone in Aphebian metasediments.	1972-74: dd.	N/A U	Deposits 3.5 mi SW of Rabbit Lake. May only be mineable by u/g methods. (NM 22/09/77)
SASK-17	COLLINS BAY Eldorado Res L 64 L/5 58°15'45" 103°38'55" (B zone)	At contact of Athabasca Sandstone and underlying Aphebian Wollaston Group metasediment cut by E-dipping thrust fault. The "A" zone is a high-grade pod of metal oxide and arsen-	1968-72: airborne rad, EM and mag and follow-up ground rad and geol surveys; soil sampling, trenching; dd identified "A" zone 1971. 1978: dd, found "B" zone.	A zone: 17.3 million lbs U_3O_8 at grade of 11.42% U_3O_8 B zone: 31,312,000 lbs U_3O_8 at average grade 0.453% U_3O_8	The "B" zone is 6,000' S of "A" zone and 6 mi NE of Rabbit Lake mine; "D" zone is within 2,000' of "B" zone. Production from

		ides in altered regolith and altered Athabasca Fm. The "B" zone occurs in altered Athabasca Fm and contains pitchblende, niccolite, po, skutterudite and trace galena.	1979-80: dd, found "D" zone 1979, engineering and environmental studies.	D zone: 5.03 million lbs U_3O_8 at grade of 1.914% U_3O_8 (NM 15/07/82)	"B" zone enticipated for 1985 after last of Rabbit Lake concentrate is produced. Production to follow from "D" zone, c 1991, then from "A zone.
SASK-18	DAWN LAKE Asamera Inc (25%) Sask Mng Dev Corp (50%) 64 L/5 58°20'00" 103°55'50"	U mineralization in narrow and discontinuous zones, above and below contact of Athabasca Sandstone and underlying Aphebian Wollaston rocks.	1976-77: airborne rad and magnetic survey, ground follow-up seismic, geochem, surficial geol, airborne EM. 1978-79: ground EM, dd of anomalies found U zones. 1980-82: dd, geochem, geoph.	11A, 11B, 11 and 14 zones dd ind: 41 million lbs U_3O_8 at overage 1.5% (Asamera Inc AR 1982)	Dawn Lake is 12 mi NW of Rabbit Lake.
SASK-19	EAGLE POINT Eldorado Res L Sask Mng Dev Corp Noranda Expl CL 64 L/5 58°18'15" 103°38'30"	U mineralization occurs as steeply-dipping parallel zones for total length of 3,400' to 900' depth; deposits in this area occur at or near contact of Helikian Athabasca sandstone and underlying Aphebian Wollaston Gp metasediments.	1980: discovery, dd intersected U mineralization. 1982: drilling.	N/A U	Deposit about 8 mi N of Rabbit Lake mine; reserve estimates awaiting further delineation drilling.
SASK-20	McCLEAN LAKE Canadian Occidental Petroleum L and Inco Mtls C 64 L/5 58°16' 103°50'	At eastern side of Athabasca Sandstone basin, well mineralized U-bearing lodes 400' to 900' long occur close to contact of sandstone and underlying gneisses; continuous strike length of 2,200' of mineralization confirmed.	1979-80: dd, ground geoph, study to determine best mng method. 1982: expl and dd.	dd-ind: 390,000 at 1.8% U_3O_8 in North and South zones 1980 .CMH 1981-82, p 73)	Deposit 7 mi NW of Rabbit Lake mine and 9 mi E of Midwest Lake; discovered in 1979 by dd at depths from 500' to 575'; tonnage and grade based on cutoff grade of 0.1% U_3O_8 over at least 5' thickness. "Jeb" zone discovered 1982, 10 km N of McClean deposits; mineralization intersected at 92 m vertical depth.
SASK-21	DUDORIDGE LAKE Thor Expls L 73 O/9 55°34'17" 106°08'59"	Pitchblende and uraninite as seams and disseminations along bedding planes in qtzite lenses within Aphebian carbonaceous meta-arkose. Also present are some sulphides, arsenides and tyuyamunite (a uranium calcium vanadate).	1969-70: airborne mag and rad survey; follow-up geol, mag, rad surveys and geochem soil sampling. 1974-80: discovery, airborne spectrometer survey, ground mag, dd, lake sediment sampling, basal till, track-etch survey and a geoph survey.	320,690 mineable at 1.84 lb/t U_3O_8 over 5' to 250' depth (cut-off 1.0 lb/t U_3O_8) 1977 (H M Jones 25/08/79 for Thor Expls L in VSE SMF 07/02/80) or pot: 6,000,000 at 2.0 lb/ton U_3O_8 1979 (NM 16/10/80, p A27)	Sask Research Council also Thor Expls L established several Cu and U basal till anomalies in 1978; subsequent geochem survey indicated 2 additional Cu and U anomalies. Mr. W. Raubal optioned the property in Sept 1980, and plans a $1 million expl and dev program.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-22	HOWARD (LITTLE CLAM) LAKE Silver Chief Mnrls (1981) L 73 P/5 55°17'50" 105°36'50"	Disseminated po, py, cp in small complex plutonic body (sill ?) composed of ultramafic rocks, gabbro, pyroxenite within NE-trending migmatite belt. Pentlandite reported in drill core.	1965-70: discovery, trenching, ground EM, mag, SP, dd.	geol res: 50,000 at 2% Ni, 1% Cu 1979 (Sask MD 73-P-05-SE, Ni-1)	The deposit is 1,000' x 6', to 30'-70' depth, at central part.
SASK-23	ELIZABETH LAKE Can Southern Petroleum L (50%) Studer ML (50%) 73 P/6 55°20'17" 105°21'40"	Cp, py, po, mag, as disseminations and veins in three small, medium grade zones in metasedimentary gneiss. Sphalerite was noted in drill core from small zones away from main zones.	1967-70: discovery, ground EM survey, mapping, dd. 1973: geochem, IP, EM, dd.	ind: 6,700,000 at 0.68% Cu, includes 1,500,000 at 1.56% Cu 1970 (NM 22/10/70)	Elizabeth Lake is located 15 mi NNW of the village of La Ronge. The mineralization also contains some values in Ag, Au, Zn and Pb.
SASK-24	NEMEIBEN LAKE Studer ML 73 P/6 55°19'27" 105°10'15"	Nickeliferous po, rare pn, cp as veined zones and blebs near NW margin of PC elliptically shaped serpentinized ultramafic pluton approx 1 mi in diameter.	1944-56: staking, airborne and ground mag, trenching, mapping, IP, dd and EM conductor ind two Ni-bearing zones. 1966-70: restaking, airborne and ground EM, mag IP, trenching, dd, economic evaluation. 1972-74: option to Studer ML, dd, gravity survey, EM, mag, self-potential.	(i) East (underground): 1,089,908 prov-prob at 0.41% Cu, 0.80% Ni, plus 523,500 possible or 2,273,975 prov-prob at 0.35% Cu, 0.61% Ni, plus 1,325,280 possible (ii) East ("open pit"): 5,476,000 ind at 0.18% Cu, 0.34% Ni (iii) West ("open pit"): 8,000,000 at 0.152% Cu, 0.233% Ni 1970 (NM 14/11/68 and WM Jan 1971)	On the East zone, a portion of the "u/g" tonnage may have been included in "o/p" tonnage figure. Geochem work indicates additional "ore" on W edge of the pluton. Negotiations circa 1974 with Sask govt about building a mill were unsuccessful.
SASK-25	SULPHIDE LAKE Studer ML (in 1976) 73 P/7 55°20'49" 104°55'45"	Small Au-bearing qtz veins and veinlets, some containing sulphides, occur in several zones associated with shear zones mainly in volcanics and dyke-like intrusives within a narrow PC greenstone belt.	1935: Au-bearing gossan discovered.one. 1939-40: staking. 1946-47: HMB&S trenching (C,D, E zones), dd (A,B zones). 1949-74: periodic dd by Studer ML over A to E zones, mapping, EM, mag, blasting and stripping.	ind: 200,000 at 0.22 oz/t Au in one zone 1965 (CMH 1974-75, p 313)	The known Au-bearing section of the greenstone belt extends several mi SW and NE of Sulphide Lake.
SASK-26	LA RONGE Drope Lake Mtls & Holdings L (in 1970) 73 P/8 55°24'30" 104°27'30"	Radioactive mineralization in pegmatite dykes and sills intruding Precambrian schists. Indicated mnrls include crytolite, pyrochlore-microlite, and secondary uranium mnrls.	1946-56: discovery, staking; acquired by La Ronge Uranium ML; radioactivity survey, trenching, sampling, dd, pilot mill and extraction plant construction. 1967: restaked by Drope Lake Expls, and building purchased from Sask government; ground rad, mapping, dd.	ind: 9,444,600 at 1.7 lbs (0.083%) U_3O_8 to 162' 1954 (John C Rodgers in Rex Manning Newsletter, 28/05/54)	Property at Drope Lake, NW of Lac La Ronge. O/p potential. The 1954 pilot mill project to work out a low cost extraction process was unsuccessful. In 1976 no property held by Drope Lake Mtls & Holdings L.

SASK-27	PITCHING LAKE Northern Copper L (in 1967) 73 P/8 55°26'13" 104°08'20"	Three sulphide zones (py, po, little cp and bornite) in area underlain by PC schists with interbedded altered sediments that form NW limb of a NE plunging syncline.	1924: initial staking. 1952-55: restaked. 1956-57: air and ground geoph surveys, trenching, dd, large pit, shaft to 42' on "A" zone and adit 235' long to test "B" zone. 1958: restaked. 1961-67: ground EM and mag, mapping, sampling, dd.	ind: 100,000 at 2.6% Cu 1957 (Sask Rept 70, 1962, pp 21, 22)		The tonnage figure has been calculated for the "A" zone which reaches a depth of more than 500'. The ownership of property is uncertain since Northern Copper L was dissolved in March, 1973.
SASK-28	IVY Scurry-Rainbow Oil L (in 1979) 73 P/15 55°46' 104°57'30"	Massive and disseminated mineralization associated with core of massive nickeliferous pyrrhotite within a PC gabbroic intrusive.	1965-68: staking, EM surveys, dd, IP, resistivity, mapping. 1975: EM, mag.	(i) Open pit potential: 4,262,400 ind at 0.295% Ni, 0.081% Cu (ii) Below "open pit": 876,200 ind at 0.389% Ni, 0.093% Cu 1968 (Scurry-Rainbow Oil L 18/04/68, p 9, prospectus, OSC 25/04/68)		Property 40 mi N of Lac La Ronge. Results of work indicated that grade and tonnage were insufficient to sustain a profitable operation.
SASK-29	JOJAY Cominco L 74 A/1 56°03'05" 104°15'30"	Po, cp, py, gal, sph and native Au in a qtz-carbonate stockwork that fills a 100' to 150'-wide fault zone sub-parallel to volcanic-metasedimentary contact.	1940-41: discovery; staked for Cominco; trenching. 1945-47: dd, trenching. 1962: dd. 1967: geol mapping, 1 ddh.	7,500 at 0.25 oz/t Au to 175' 1947 (Sask MD Index 74-A-01-SW, Au-2)		Property about 56 mi N of Lac La Ronge. The single hole drilled in 1967 tested mineralization at depth (Au values between 268-341' in hole).
SASK-30	JOLU Decade Dev L (options 1975) 74 A/1 56°00'33" 104°16'30"	Au-bearing qtz veins (closely-spaced stringers) in migmatized greenstones near granodioritic intrusion. Py, po, cp, muscovite, Mo and stibnite irregularly distributed in the qtz and some in wall-rock.	1944-45: discovery; staked for Cominco L; trenching, dd. 1962-67: dd. 1972-75: Optioned by Decade from Cominco L, dd, o/p and decline, 50 tpd mill, minor prod in 1973 and in 1975.	16,000 at 0.75 oz/t Au to depth of 80', cut off 0.28 oz/t Au or 56,957 at 0.416 oz/t Au 1973 and 1975 (NM 08/03/73 and Decade Dev L, SMF VSE 18/03/75)		A total of 4,538 tons was milled in 5 months in 1973 and 1975; milling continued for an additional 5 months in 1975 when the mill liners failed and could not be replaced - no production figures reported for this period.
SASK-31	REEF Studer ML (in 1959) 74 A/8 56°19'19" 104°08'18"	A small sill-like body of gabbro 200' wide, exposed for 500', contains sparse disseminations of nickeliferous po.	1954-59: staking, trenching, ground EM and mag surveys; best assay from dd showed 0.94% Ni, 0.58% Cu. 1964-66: geochem, mag and EM surveys.	N/A	Ni-Cu	Reef Lake is about 37 mi W of the S end of Reindeer Lake. Considerable low grade Ni-Cu mineralization has been reported. (Sask Rept 100, p 27, 1965).

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-32	BURBIDGE LAKE (BURR) Dolores Bench Res L (in 1977) 74 A/12 56°46'25" 105°04'05"	Pitchblende and uraninite in shears and tension fractures that form discontinuous lenses within meta-arkoses of the Aphebian Wollaston Group on the NE side of the Burr fault.	1953-55: staking, stripping, trenching, dd. 1969: dd, trenching, prospecting, rad surveys.	ind: 30,000 at 0.18% U_3O_8 1975 (Sask L S Beck 11/71 p 8)	Burbidge Lake is about 80 mi SW of Wollaston Lake. Because deposit did not continue below 500' an economic tonnage was not available in the light of 1969 work.
SASK-33	WEST BEAR Eldorado Res L Noranda Expl CL Sask Mng Dev Corp 74 H/16 57°52'50" 104°04'00"	U-Ni mineralized zone in basal Athabasca Sandstone and underlying Aphebian rocks.	1977-78: discovery, dd.	125,000 at 0.4% U_3O_8 1978 (Sask Mng Dev Corp, 1977-78 AR and NMI est)	Deposit about 25 mi SW of Rabbit Lake mine. The tonnage and grade figures are approximate.
SASK-34	MIDWEST LAKE Esso Res Can L 50% Numac Oil & Gas L 25% Bow Valley Ind L, et al 25% 74 I/8 58°18'20" 104°05'20"	U deposit at contact of Athabasca Sandstone and Wollaston Basement Complex at depth of 600 to 750'. Pitchblende disseminated in sandstone above contact, with Ni-Co arsenides in altered rock at contact, and in shear and breccia zones in altered pelitic gneiss in basement. High grade material (14% U_3O_8) occur in a series of pods.	1968-74: Numac Oil acquired permit, airborne rad survey and geochem sampling in area of radioactive boulder train, seismic mag, EM and gravity surveys, trenching, dd, radon sampling. 1977-78: discovery of U deposit by Esso Mnrls Can during dd program. 1979-80: environmental, mng, milling and metallurgical studies, dd.	dd-ind: 2,000,000 mt at 1.25% U_3O_8, a little Ni, Co, Ag over 2,300 m strike length (cut-off 2 lb/t U_3O_8 over 2 m) (NM 06/09/79, p 23)	Midwest Lake within Athabasca Basin, about 15 mi NW of Rabbit Lake mine. Deposit contains 75-80 million lb U_3O_8, 60 million lb Ni, 7 million lb Co (Bow Valley Ind L Interim Rept 30/16/80). Prod planned for 1986 is now postponed to the late 1980s or 1990. (NM 10/12/81).
SASK-35	MAURICE BAY Uranerz Expl & Mng L (operator) and Eldor Res L (50%) Sask Mng Dev Corp (50%) 74 N/5 59°23' 109°54'	U deposit on rim of Athabasca Sandstone in area of Aphebian basement unconformity.	1969-76: Expl included geol, airborne and ground rad reconnaissance plus photogeological study, EM, IP and resistivity work but no showings were found. 1977: U showing discovered, dd.	1,125' x 180' to average depth of 55', thickness of zone varies from a few feet to 60', average grade 0.35% U_3O_8 1977 (NM 19/07/79, p A1; Sask Mng Dev Corp 1977-78 AR)	The deposit is on the NW shore of Lake Athabasca about 3 mi E of the Alberta border; contains approx 2 million lb U_3O_8 (NM 17/07/81 p C20).
SASK-36	BOX MINE Cominco L 74 N/7 59°27'18" 108°31'13"	Granite sill-like body 2,000' long, 120' wide, intruding Tazin Group qtzose metasediments. The sill is cut by a stockwork of qtz veins containing py with associated Au, gal, sph, cp and minor free Au.	1934-42: discovery, staking, sampling, dd, 2 shafts, 500' depth with 3 levels, u/g dev included stoping and dd; treated 1,400,000 at 0.045 oz/t Au in 1,000 tpd mill in 1939-42. 1976: dismantling headframes and the mill.	2,328,000 prob at 0.061 oz/t Au and 264,000 inf at 0.091 oz/t Au plus 10-15 million inf at 0.03-0.04 oz/t 1939 (Cominco L 1939 AR (see GSC Mem 269, p 78))	Mine on N shore of Lake Athabasca near Goldfields. The probable tonnage figure is prior to mng. Since grade is considered low, bulk mng methods may prove feasible.

SASK-37	GULCH MINE Gulch Res L 74 N/7 59°26'38" 108°51'32"	Pitchblende in veinlets in meta-argillites and qtz-feldspar gneisses, "red-altered" and brecciated, on the footwall of the Black Bay fault. Variable amounts of py, carbonate and graphite occur in the veins plus small amounts of cp, gal, and smaltite.	1953-57: geol mapping, rad surveys, trenching, sampling; dd in 1954 found pitchblende; shaft sunk from adit to depth of 831' with 3 levels plus lateral work and u/g dd. 1967-68: geol and geoph surveys and dd by Gunnex L and Gulch ML. 1974-75: underwater rad anomalies tested by dd intersected U values.	201,000 dd-ind at 0.09% U_3O_8 (cut-off 0.05%) and 315,000 poss at same grade 1975 (Gulch Ms Inc, 1975 AR)	The Gulch Mine is on the Crackingatone Peninsula along the Black Bay fault, 12 mi SW of Uranium City. Re-evaluation in 1975 of previous u/g dd resulted in tonnage and grade figures.
SASK-38	LORADO MINE Conwest Expl CL 74 N/7 59°29'34" 108°39'57"	The main zone contains pitchblende, py, cp, associated with fracturing along base and limbs of synclinal body of graphitic schist of the Tazin Group. A large mass of pyritized graphitic schist with widely scattered pitchblende lies on the footwall side of the main zone.	1950-60: staking, dd, shaft to 700' with 4 levels; milling 1957-60 of 95,000 at 0.19% U_3O_8 reached capacity of 800 tpd; sulphuric acid unit was also operated.	(i) Main Zone: 19,335 mineable at 0.18% U_3O_8 plus 202,893 probable at 0.175% U_3O_8 1960 (ii) Pyrite Zone: 3,000,000 at 26% pyr blocked off to 500' level 1954 (Lorado Uranium ML, 1960 AR; FP Corp Serv 22/02, 23/04, and 26/07/56)	The mine is on Beaverlodge Lake, 6 mi SSW of Uranium City. Mine closed in 1960 after sales contract was sold to Eldorado.
SASK-39	STEWART ISLAND Norex Res L 74 N/7 59°19'31" 108°54'12"	Three small high-grade lenses containing blebs and veinlets of pitchblende in orthoqtzite of Athabasca Fm of Helikian age. Main zone is 800' S of, and 300' vertically above Athabasca-Tazin unconformity.	1955: radioactive boulders discovered. 1958: detailed prospecting revealed mineralized lens. 1960: dd discovered another lens to depth of 15'. 1967-68: geol and rad work, ground mag, EM and dd of main zone.	ind: 4,000 at 0.5% U_3O_8 to shallow depth (FP Surv Ms 1969, p 200)	Stewart Island is in Lake Athabasca about 20 mi SW of Uranium City.
SASK-40	ATHONA MINE New Athona ML 74 N/8 59°26'45" 108°29'05"	The Athona granite body is separated into two parts by a tabular body of amphibolite. Two Au-bearing zones occur in the granite: the "main" zone, cut off by the amphibolite to the S, consists of narrow parallel qtz veins with feldspar and chlorite and some py, sph, gal, cp, asp, po, mo and native Au. The "East" zone is 900' to the E near a NNE-trending fault.	1934-39: discovery, prospecting, trenching, dd; 2 shafts and winzes to depths of 112' and 378', two levels, drifting, crosscutting and raising. Mined 5,115 tons for sampling and mill testing. 1980-81: heap leach and metallurgical bulk sample tests.	(i) West Zone o/p: (a) 1,947,138 at 0.08 oz/t Au (cut) to 250' level (b) 1,175,333 at 0.043 oz/t Au (o/p potential) (c) 680,000 at unstated Au grade (ii) East Zone: 30,000 prob at 0.257 oz/t Au and 50,000 poss at 0.171 oz/t Au 1939 (New Anthona ML 1971, AR; GSC Mem 269, p 75)	Athona adjoins the Box mine property. Operations discontinued in 1939 because no arrangements had been made with the Box mine to treat ore on custom basis, and no satisfactory source of power was available. Large part of deposit amenable to o/p mining.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-41	FISH HOOK BAY "A" ZONE Eldorado Nuclear L 74 N/8 59°27'25" 108°23'35"	Shear and fractures in qtzite erratically mineralized with calcite, chlorite, hematite, pitchblende cp, py, gal and nolanite (Fe-vanadate).	1945-48: surface prospecting discovered numerous anomalies in area; trenching, sampling, dd. 1982: geol, geochem, ground mag, Winkie drill.	(i) 55' x 4.6' at 0.34% U_3O_8 (ii) 71' x 4.2' at 0.21% U_3O_8 (iii) 25' x 4.2' at 0.26% U_3O_8 c 1945-48 (Sask Rept 126, p 95, 1969)	Fish Hook Bay about 6 mi E of S end of Beaverlodge Lake; three en échelon zone shoots outlined by surface sampling. Drilling indicated zone of fractures intermittently mineralized for 800' length.
SASK-42	FISH HOOK BAY "B" ZONE Eldorado Mng & Refining L (in 1960) 74 N/8 59°28'02" 108°24'37"	Stringers, pods, disseminations of pitchblende accompanied by hematite, gal, nolonite (Fe-vanadate) in graphitic shear zone on hanging wall of brecciated ferruginous and dolomitic qtzite of the Tazin Group.	Pre-1945: staking, prospecting, geol mapping resulted in discovery of many radioactive anomalies by Eldorado. 1945-48: dd outlined "B" zone. 1957: Black Bay Uranium L lease, shaft to 618', adit. 1960: shipped 6,496 tons ore to Eldorado mill.	100,000 at 0.22% U_3O_8 to 240' 1957 (Sask Rept 126, p 63, 1969)	The contract to ship ore to Eldorado mill was terminated in 1960 due to high vanadium content, and the operation was closed down.
SASK-43	SHOWING NO 45-Sh-10 Eldorado Nuclear L 74 N/8 59°27'40" 108°23'50"	Pitchblende as isolated grains and small veinlets in several of the carbonate veins in fractures in sheared ferruginous dolomite.	1945-48: prospecting, trenching, sampling.	(i) 60' x 3.2' at 1.01% U_3O_8 (ii) 30' x 3.6' at 0.67% U_3O_8 (iii) 50' x 3.3' at 0.15% U_3O_8 c 1945-48 (Sask Rept 126, p 95, 1969)	This showing about 2,000' NW of Fish Hook Bay "A" zone.
SASK-44	ARTY Cons Marbenor ML (pre-1969) 74 N/9 59°42' 108°25'	Radioactivity mainly in alaskitic granite in a fracture zone between granite and amphibolite. No U mnrls visible.	1950s: dd.	500' x 5' at 0.15% U_3O_8 pre-1969 (Sask Rept 126, p 95, 1969)	Arty claims about 10 mi NE of Uranium City. Dimensions of deposit outlined by drilling; deeper drilling was recommended due to persistence of structure.
SASK-45	ELDORADO BEAVERLODGE (ACE-FAY-VERNA-DUBYNA) Eldorado Nuclear L 74 N/9 59°34' 108°25.4' (Verna mine)	Veins containing pitchblende fill fractures in metasediments.	1946: first discoveries. 1953-82: prod more than 43 million lbs U_3O_8 from 11 million tons treated from several mines.	meas & ind: 3,600,000 at 0.207% U_3O_8 to 34th L end 1980 (CMH 1981-82, p 131)	Upwards of 400,000 tons was mined after this T-G estimate. Increasing costs together with worsening uranium prices and markets made further exploitation uneconomic and brought about the decision to close [redacted]ne 3[redacted]82.

SASK-46	JIM & GAL, ZONE 1 Camdeck ML (in 1954) 74 N/9 59°35'58" 108°29'58"	Metasomatic granite with inclusions of qtzite and amphibolite; U-bearing shear zones associated with the Edie fault; one zone contains carbanate stringers in brecciated granite; two other zones in breccia at footwall of diabase dyke.	c 1954: dd.	300' x 3.5' at 0.31% U_3O_8 c 1954 (Sask Rept 126, p 92, 1969)	Deposit 4.5 mi NE of Uranium City.
SASK-47	PAUL ZONE 2 Pippin Mng & Uranium Corp (c 1963) 74 N/9 59°35'20" 108°28'32"	Pitchblende, secondary U mnrls, py, hematite and calcite in fractures in granitized argillites.	1949: prospecting, discovery, trenching, dd. 1959: highgrading, 28.5 tons at 2+% U_3O_8 shipped.	30 T/VF at 0.2% U_3O_8 pre-1969 (Sask Rept 126, p 99, 1969)	Deposit 5 mi ENE of Uranium City. About 200 tons of rock broken during highgrading is near the trenches.
SASK-48	TOR (META URANIUM) Eldorado Nuclear L 74 N/9 59°31'45" 108°29'01"	Two small "ore" shoots occur in Tazin qtzite on 350 level of the mine. At the surface minor pitchblende occurs in fractures in Martin Fm conglomerate and qtzite.	1953-54: Meta Uranium ML acquired Tor group, dd, adit, crosscut, drifting, prospect shaft to 377', lateral work. 1955: operations suspended.	4,000 at 0.21% U_3O_8 1955 (Sask Rept 126, p 77, 1969)	On Umisk Island in Beaverlodge Lake. Meta Uranium ML sold property to Eldorado Nuclear for cash and 2% royalty on prod. Meta changed name in 1978 to Metina Dev Inc.
SASK-49	VIRGIN LAKE Norbaska ML 74 N/9 59°37'05" 108°27'35"	Pitchblende as veinlets in fractures in granitic gneisses of the Tazin Group.	1953-56: rad and geol surveys, dd, adit, crosscutting, drifting, raising. 1967: rehabilitated adit, scint survey, dd.	ind: 11,000 at 0.34% U_3O_8 (C M Trigg 26/01/67 in TSE Fil Stat 1532, Norbaska ML, 1967)	Mineralized zone 4.5 mi NNE of Uranium City within easy access to the Eldorado custom mill. Optioned to SMDC and AGIP Can L, 1982.
SASK-50	CAYZOR Eldorado Nuclear L 74 N/10 59°34'41" 108°38'24"	Small U-bearing shoots in zone of faults and fractures cutting granitized chlorite schists and impure qtzite of Tazin Group. Pitchblende and thucholite form pods, pockets and lenses along fractures. Carbonate is present; and gal is common in wall rocks.	1949-52: prospecting, geiger counter survey, trenching, discovered radioactive locations; dd from ice located high-grade fractures. 1954-60: shafts (main and internal) to 800', six levels; shipped 90,000 at 0.27% U_3O_8 to Lorado mill 1957-60.	10,000 at unstated % U_3O_8 above 5th level 1960 (Sask Rept 126, p 68, 1969)	Property 1.25 mi NW of Uranium City. Orebody not mined out when mine closed in 1960 (due to closure of Lorado mill). Potential below 5th level unknown. Deepest hole, 85' below 6th level, assayed 2.66% U_3O_8 across 1'.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-51	CHANCE LAKE (TOBE SHOWING 10-2) Camox L 74 N/10 59°32'52" 108°43'12"	The Boom strike fault cuts granitized metasediments of the Tazin Group. Pitchblende-bearing carbonate and chlorite veins occur in red-altered gneiss on both footwall and hanging-wall of fault zone. Two low grade radioactive lenses each 500' long were outlined.	1949-53: discovered radioactive occurrences on concession, dd. 1968: Tobe ML did trenching and dd.	ind: 100,000 lbs U_3O_8 1968 (NM 24/04/69)	Tobe ML signed a conditional agreement in 1968 to deliver U_3O_8 to Metallgesellschaft AG of W Germany. First years delivery planned by "scalping" the surface. Tobe ML was "struck off" register of companies in 1972.
SASK-52	FOLD LAKE, SHOWING NO 87 New Hosco ML (in 1967) 74 N/10 59°37'31" 108°38'53"	A shear zone of red-altered and silicified amphibolite separates granitic gneiss from interbedded amphibolite and schist. The shear zone is erratically mineralized with py, cp and pitchblende.	pre-1959: trenching, sampling, dd. 1959: highgrading, 500 tons of rock broken, amount shipped not known.	80' x 2.6' at 0.3% U_3O_8 pre-1959 (Sask Rept 126, p 97, 1969)	The showing is 4 mi NW of Uranium City. Dimensions from surface work; dd revealed zone with low overall U values.
SASK-53	JIM Early Bird ML 74 N/10 59°32'40" 108°39'40" (Boundary)	Veinlets of pitchblende disseminated along 1,600' of sheared contact between siliceous mylonite and chlorite schist of Tazin Group, just NW of Black Bay fault. Two zones: "Boundary" vein in shear zone; and "Cinch" zone (possible continuation of veins from Lake Cinch mine).	1950-52: prospecting, dd. 1968-69: dd by Early Bird ML. 1974-77: Eldorado Nuclear L option, dd, rad survey, geol mapping, soil samples for radium analysis. 1978: expl agreement terminated by Eldorado because significant tonnage potential of ore grade was unfavourable.	ind: (i) 44,600 at 0.22% U_3O_8, (ii) 26,400 at 0.11% U_3O_8 to 240' 1977 (NM 29/09/77, p 21)	Property at W end of Cinch Lake adjoining producing (1979) Lake Cinch mine. Possibility of mng border area from Lake Cinch u/g workings. Small amounts of near surface material might be mined by o/p.
SASK-54	LAKE CINCH A Frame Contracting L 74 N/10 59°32'29" 108°40'02"	Pitchblende calcite, hematite in brecciated and mylonitized zones and in fracture zones in the vicinity of the Cracking-stone fault and the Main fault cutting Tazin gneisses of Archean or Proterozoic age.	1948-60: staking, geol surveys, dd, 1,096' shaft, 6 levels; 125,205 tons at 0.24% U_3O_8 produced 1957-60. 1966-69: dd outlined U zones on adjoining property (Enex). 1974-75: Eldorado Nuclear L purchased both properties, expl dd. 1978-79: purchased by Cenex L; 2,550' spiral decline to 375' vertical depth on 03 Zone (1,500' W of shaft); rad ore sorter installed; ore trucked (2,000 lbs/week) to Eldorado mill. 1980: purchased by A Frame Contracting L to process stockpile with the rad ore sorter.	(i) 300,000 at 0.2% U_3O_8 (after 39% dil) to 1,000' in Lake Cinch Mine and to 300' in River Zone 1976 (ii) 15,000 at 8.4 lb/t U_3O_8 in Lethbridge zone, below the 300' horizon of the 03 Zone 1976 (NM 11/11/76 and 03/02/77 and 06/09/79)	Property 3 mi SW of Uranium City and 11 mi by road from Eldorado Nuclear's mill. The WM April/79 reported 855,429 lbs U_3O_8 on 03 and 04 zones, just W of River zone. From this amount a total of 482,000 lbs in concentrates was shipped in 1979 to customers. At Lake Cinch mine an additional 712,375 lb U_3O_8 potential was reported. A fire Feb/79 destroyed the powerhouse leading to a working capital shortage. Cenex L was placed in receivership.

SASK-55	ORB ZONE 6A Mokta (Can) Ltée (in 1968) 74 N/10 59°36'05" 108°46'50"	Deposit on limb of anticline in amphibolite and red-banded paragneiss; fracture zone in the amphibolite is filled with carbonate, qtz, chlorite with minor pitchblende and py.	1952-55: sampling, dd, geiger counter work, inclined shaft to vertical depth of 50', some drifting. 1958-59: small amount of high-grading. 1966-68: part of claim block acquired by Mokta; airborne scint and ground follow-up.	(i) 300' x 26' at 0.336% U_3O_8 on surface (ii) 58' x 1.5' at 0.2% U_3O_8 on 50' horizon (Sask Rept 126, p 82, 1969)	Deposit 6 mi WNW of Uranium City; surface dimension and grade based on 9 channel samples across the zone.
SASK-56	PITCH-ORE Kerf Petroleums Corp 74 N/10 59°32'03" 108°33'19"	Area underlain by basaltic flows intercalated with sediments of Martin Fm. Pitchblende plus hematite, cp, clausthalite (Pb, Sc), py, in calcite veins and fault breccia along main fault where it cuts volcanics, and along volcanic-arkose contacts.	1949-54: claims purchased by Pitch-Ore Uranium ML, aerial photograph and geiger counter survey located radioactive occurrences, trenching, sampling, dd, adit, lateral dev and u/g dd, 50 tons shipped to Eldorado mill. 1959-61: property leased, some high grading, a few tons of ore broken but none shipped. 1978-79: exploration.	ind: 16,500 at 0.10% U_3O_8 1954 (FP Surv Ms 1955, p 326)	Property on Beaverlodge Lake, E of Martin Lake and 3 mi SE of Uranium City. Reportedly, closure in 1954 may have been prompted by the pitchblende being too finely disseminated for economic recovery.
SASK-57	ROSS ZONE (SHOWING 49-CC1-11) Cenex L 74 N/10 59°32'35" 108°41'35"	Three mineralized, parallel faults cut slaty amphibolite, qtzite and granite. Vein material consists of qtz calcite, chlorite, hematite, pitchblende py, cp.	1949-51: discovery, sampling, shallow dd. 1959: dd, some highgrading. 1968-69: dd.	(i) 55' x 2.2' at 1.41% U_3O_8 (ii) 120' x 3.7' at 0.36% U_3O_8 (iii) 40' x 2.7' at 0.06% U_3O_8 (Sask Rept 126, p 87, 1969)	The Ross zone is located about 1 mi W of the old Lake Cinch mine shaft. Dimensions and grades from surface sampling. Intersections from 1968-69 drilling varied in content from minor values to a high of 34.0 lb across 5'.
SASK-58	SHOWING 50-CC1-128C Amax Athabasca Uranium ML (in 1951) 74 N/10 59°32'05" 108°41'40"	Highly radioactive brecciated gneiss containing U stain and heavily impregnated with hematite, on footwall side of fracture zone in qtz-feldspar gneiss.	1947: geol survey, discovery. 1951: trenching, dd. 1959: some highgrading.	300' x 3.9' at 0.27% U_3O_8 (Sask Rept 126, p 89, 1969)	Deposit about 1-1/4 mi SW of Cinch Lake; size and grade based on 6 ddhs.
SASK-59	GOLDFIELDS SHOWING 50-DD-10 Mokta (Can) Ltée (in 1968) 74 N/10 59°31'50" 108°48'20"	Disseminated pitchblende in carbonate veinlets in two hematite-bearing fracture zones in a complex of paragneiss and migmatite in the hanging-wall of the Spot Lake fault.	1951: expl, discovery. 1967-68: scint survey, trenching, sampling.	50' x 5.1' at 0.113% U_3O_8 c 1968 (Sask Rept 126, p 95, 1969)	Deposit at Black Bay about 7 mi SW of Uranium City.
SASK-60	GOLDFIELDS SHOWING 50-DD-97 Mokta (Can) Ltée (in 1968) 74 N/10 59°32'57" 108°46'	Disseminated pitchblende in fracture zone in red altered paragneiss near Spot Lake fault.	1951: expl, discovery. 1967-68: scint survey and ground follow-up.	50' x 3.8' at 0.236% U_3O_8 c 1968 (Sask Rept 126, p 96, 1969)	Deposit S of Spot Lake, about 5.5 mi SW of Uranium City.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-61	SHOWING 50-TT-75 Goldfields Uranium ML (c 1957) 74 N/10 59°39' 108°35'	Paragneiss and granite contains thin bands of amphibolite. Pitchblende grains, qtz, calcite, hematite form lens where fault cuts a band of amphibolite.	1950-55: discovery, staking, dd. 1959: 11 tons high graded and shipped to mill by sir.	45' x 5.3' at 0.26% U_3O_8 pre-1959 (Sask Rept 126, p 97, 1969)	The showing is 5 mi N of Uranium City.
SASK-62	SHOWING 55 Rix-Athabasca Uranium ML (c 1967) 74 N/10 59°31'34" 108°44'55"	Chloritized shear zone in qtz-feldspar gneiss; the zone contains calcite veinlets and erratically disseminated pitchblende in the calcite and sheared rock.	1950: trenching, sampling, dd.	70' x 2' at 0.32% U_3O_8 1950 (Sask Rept 126, pp 100-101, 1969)	Deposit 5.5 mi SE of Uranium City; dimension and grade from sampling in trenches; one hole 30' below zone intersected 4' at 0.13% U_3O_8.
SASK-63	SHOWING 59 Rix-Athabasca Uranium ML (c 1967) 74 N/10 59°32'05" 108°43'50"	Thin coatings of pitchblende and secondary uranium mnrls in fractures along the contact of diabase sill in granite.	1950: trenching, sampling, dd.	(i) 40' x 4.2' at 0.2% U_3O_8 (ii) 40' x 4.7' at 0.27% U_3O_8 1950 (Sask Rept 126, p 101, 1969)	Deposit 2.5 mi W of Cinch Lake. Dimensions and grade from trenching and sampling. Drilling results disappointing as sill branches and thins at shallow depth.
SASK-64	SHOWING 111 Rix-Athabasca Uranium ML (c 1967) 74 N/10 59°32'38" 108°44'00"	Reddish qtz-sericite-chlorite-schist in hanging wall of the Boom fault contains fracture zone where pitchblende is irregularly disseminated in short calcite veinlets and in red-altered wallrock fragments.	1950: channel sampling, dd.	230' x 2.1' at 0.18% U_3O_8 1950 (Sask Rept 126, p 101, 1969)	Deposit 2.5 mi W of Cinch Lake. Dimension and grade from channel sampling; weak radioactive zones (0.05% from drilling but one intersection graded 0.31% U_3O_8 across 1'.
SASK-65	VOY Northgate Expl L (in 1969) 74 N/14 59°47'10" 109°07'30"	Numerous pitchblende-bearing zones, mainly fracture fillings containing calcite, qtz hematite, minor chalcocite, covellite, native Cu; zone 5 contains calcite veins, specularite, hematite and visible pitchblende in shear zone in red-altered granite gneiss and amphibolite.	1953-55: geol mapping, trenching, dd, short adit and lateral work, prospecting by New Mylamaque Expls L. 1969: ground scint, topo and geol surveys.	(i) 40' x 3.6' at 0.38% U_3O_8 (ii) 65' x 3.1' at 0.66% U_3O_8 c 1953 (Sask Rept 126, p 98, 1969; Sask MD 74-N-14-SE, U-2 and U-4	Property on Laird Is in Tazin Lake about 22 mi NW of Uranium City.
SASK-66	FOND-DU-LAC Eldorado Nuclear L Sask Mng Dev Corp Amok L 74 O/6 59°18'15" 107°10'00"	A high grade ore containing pitchblende, coffinite and uraniferous goethite in steeply-dipping fractures in Athabasca Sandstone, and a low grade aureole containing pitchblende inclusions in goethite.	1967: helicopter-borne rad survey located rad boulder train. 1969: dd revealed in-situ mineralization. 1975-79: airborne and ground EM surveys, mag, IP, gravity and geochem surveys.	1,000 lbs U_3O_8 (aver grade of deposit 0.25%) 1980 (L A Homeniuk, CIM Ann Mtg, 1980)	Deposit about 2 km SE of the hamlet of Fond-du-Lac.

SASK-67	CURRIE LAKE Inexco Mng C (in 1969) 74 O/8 59°22'30" 106°03'40"	Nickeliferous po, cp, py, mag disseminated in P.C. norite-band also concentrated in fractures and shear zones that parallel the E-W structural trend.	1953: staking, trenching, sampling. 1957: airborne mag, EM and rad surveys, dd. 1965: Torwest Res (1962) L outlined 2 parallel zones by dd. 1969: Inexco Mng C prospected for uranium.	(i) Upper zone: 5,900 at 1.93% Ni to 40' (ii) Lower zone: 42,500 at 0.71% Ni to 100' 1965 (Sask MD Index 74-O-08-SE, Ni-3)	Property near E end of Lake Athabasca, N of Fond du Lac. Part of Inexco Mng C. Permit No. 6 in 1969, but no examination of sulphide deposits at that time.
SASK-68	ACHAK Tremar Mnrls L (in 1969) 74 O/12 59°39'10" 107°55'08"	Norite body intruding PC granite gneiss contains po as cementing material, fracture fillings and disseminations. A little cp, sph and mo are present.	1936-42: staking, prospecting, trenching, dd. 1951-52: mag and geol survey, dd to test depth. 1965: acquired by Tremar, ground mag, trenching, sampling	ind: 1,500,000 tons up to 0.6% Ni 1942 (Sask Rept 36, p 97, 1959)	Property N of Dinty Lake about 24 mi ENE of Uranium City.
SASK-69	NISTO Nisto ML (in 1953) 74 P/3 59°12'40" 105°26'50"	Paragneisses and sills of metagabbro and amphibolite on the hanging-wall side of the Black Lake fault with sandstones of Athabasca Fm on footwall; mineralized fractures in 2,500' x 500' area with veins containing hematite, calcite, qtz, pitchblende, cp, py, gal.	1948-53: discovery, trenching, surface and u/g dd, two adits and lateral work. 1959: highgrading, 500 tons shipped to Lorado mill. 1966: airborne and ground scint surveys and geol survey.	(i) 513' x 2.5' at 0.199% U_3O_8 (ii) 256' x 2.55' at 0.55% U_3O_8 (iii) 120' x 3.97' at 0.208% U_3O_8 (iv) 26' x 2.5' at 0.612% U_3O_8 (v) 14' x 2.5' at 0.123% U_3O_8 plus 10 additional surface zones c 1948-49 (Sask Rept 126, p 79, 1969)	Property at W side of Black Lake. Results of drilling and u/g work were not encouraging. Two of the u/g zones were more erratically mineralized than on surface. Amok L (Mokta, et al) dd a hole in 1968 to test depth to unconformity; no radioactivity encountered in the hole.
SASK-70	AXIS LAKE Placid Oil C (in 1965) 74 P/5 59°20'47" 105°59'50"	Massive to disseminated po and py with minor cp in shear zone in siliceous phase of norite body that intrudes gneisses and schists of the Tazin Group. Mineralized zone 15' to 20' wide traced 3,600' and still open to west.	1929-30: gossan area with Ni-Cu values discovered, staking, dd at least 5 holes. 1934-35: dd. 1952-56: staking, mag survey, dd. 1957: airborne mag and EM. 1965: ground EM, dd.	3,750,000 at 0.6% Ni, 0.6% Cu, 0.15% Co 1930 (Sask Rept 36, p 99, 1959)	Property near E end of Lake Athabasca, N of Fond du Lac. By 1965 drilling outlined 2 shallow, 150-300' deep, zones: Main 3,000' x 15' at 0.66% Ni, 0.35% Cu, 0.02% Co; West 2,000' x 19.4' at 0.56% Ni, 0.10% Cu, 0.02% Co. Drilling in 1955 tested main zone to 1,000' depth.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
SASK-71	PLUTO DAY AREA Kintla Expls L 74 P/6 59°19'08" 105°03'35"	Shallow meta-sedimentary synclinal structure (3 mi x 7 mi) with Mo occurrences and radioactive pegmatites distributed around the syncline, and to the N and S in the surrounding granite and qtz monzonite body. Radioactivity due to disseminated uraninite and secondary U-bearing mnrls.	1949-50: prospecting discovered radioactive pegmatites. 1975-77: acquired by Kintla Expls L, trenching, sampling. 1978: optioned to Wyoming Mnrls Corp. 1979-80: salt sampling, geol, dd. 1981-82: biogeochem program.	1,900,000 T/VF at 0.80 lbs/t U_3O_8 1975 (NM 09/10/75)	Pluto Bay is located on N shore of Black Lake, E of Lake Athabasca. The T/VF figure is the amount of uranium estimated in the rim of the entire structure.
SASK-72	CORRIGAN Fosago Expls L (in 1969) 74 P/7 59°20'00" 104°54'00"	In Charlebois L area U-bearing lit-par-lit type pegmatite bodies occur at contact zones between metamorphic rocks of Tazin Group and granitic intrusions. Microscopic grains of uraninite are associated with the biotite.	1949-52: radioactive pegmatites discovered, trenching, sampling, mapping, scint survey. 1955-56: expl of pegmatites, dd.	ind: 200,000 at 0.1+% U_3O_8 (NM 17/05/56)	Property 3 mi S of Charlebois Lake, at Guppy Lake.
SASK-73	MOZZIE LAKE AREA Numac Oil & Gas L 74 P/7 59°24' 104°30'35"	Radioactive pegmatites in areas of qtz-feldspar-biotite gneiss.	1966-67: anomaly discovered by airborne scint survey; dd. 1968: rad and geol surveys, dd.	(i) Zone 20A: 204,200 ind at 0.119% U_3O_8 (ii) Zone 1500' NE of 20A: 4,100 at 0.087% U_3O_8 1968 (Numac Oil & Gas L, 1968 AR; Sask MD 74-P-07 NE, U-22)	The drilling was carried out at Mozzie Lake, E of Charlebois Lake.
SASK-74	ROW GROUP Fosago Expls L (in 1974) 74 P/7 59°23'40" 104°51'50"	In Charlebois Lake area U-bearing pegmatite bodies occur along contact zones between metamorphic rocks of Tazin Group and granitic intrusions. On Row group mineralization is fine-grained uraninite, locally thorianite, a little Mo and po.	1949-52: staking, prospecting, trenching, dd. 1968-69: examined by Dejour ML, claim lapsed. 1974: Fosago Expls L held ground in CBS 2697.	ind: 432,000 at 0.06% U_3O_8 equivalent; to dd depth of 250' 1952 (GSC EG 16, p 211, 1962)	The Row group is located near S end of Charlebois Lake.
SASK-75	SPRECKLEY LAKE M-13 ANOMALY Thor Expls L (50%) Anglo-Bomarc ML (50%) 74 P/7 59°28'20" 104°50'00"	U-Mo bearing pegmatites along contact zones between metamorphic rocks of Tazin Group and granitic intrusions.	1951: radioactive anomalies found by scint survey, dd. 1967: Copper Range Expl C (Sask) Inc, acquired property; geol and scint surveys, dd. 1977: ground optioned by Thor Expls and Anglo-Bomarc ML.	141,300 at 0.073% U_3O_8 over 11.1' or 72,700 at 0.13% U_3O_8 over 6.7' 1967 (L S Beck 03/02/72, written commun)	Spreckley Lake is immediately NW of Charlebois Lake. The MoS_2 generally grades 0.05%.

BRITISH COLUMBIA

B.C.-1	BASIC Hunter Point Expls L 82 E/1 49°01' 118°02'	Claims underlain by nickeliferous ultramafic rocks.	1971-73: 2,200' dd.	20,000,000 at about 0.2% Ni 1974 (VSE SMF 07/74, Chromex Nickel ML)	
B.C.-2	MASTADON Chromex Nickel ML 82 E/1 49°00'30" 118°10'20"	Jurassic volcanics cut by granitic rocks of Nelson batholith. A serpentinized zone at the intrusive contact contains millerite, pn, Ni-bearing py and mag. Chromite occurs in pods and disseminations in serpentinized dunite.	1900-18: intermittent surface work. Shipment of 670 tons chromite ore. 1966-70: mag and EM surveys, dd. 1977-78: trenching and dd. 1980: dd.	ind: 391,000,000 at 0.24% Ni 1970 (VSE SMF 07/74, Chromex Nickel ML)	Mineable by o/p. An appreciable part of the nickel, present in the form of nickel-bearing serpentine, is not recoverable by conventional methods.
B.C.-3	CITY OF PARIS (LEXINGTON) Grenoble Energy L 82 E/2 49°00'30" 118°36'30"	Qtz porphyry intrusive cut by a Cretaceous (?) serpentine dyke-like body. Py and cp in vein systems at both contacts. Elsewhere on the property py and cp occur as disseminations and in fractures and minor qtz stockworks in the qtz porphyry between two serpentine bodies.	1892-1900: u/g work in shafts and adits, minor prod. 1968-71: Lexington ML; IP, mag and geochem surveys, dd. 1972: dd in 34 holes by Granby Mng CL. 1974: geoph and geochem surveys, 1,233 m dd by Aalenian Res L. 1980-81: u/g work, dd.	ind: 313,527 mt at 0.175 oz/t Au, 0.96% Cu, diluted 15% 1982 (VSE SMF 93/82, Grenoble Energy L)	Teck Corp. optioned in 1981.
B.C.-4	GREYHOUND GM Res L 82 E/2 49°06'03" 118°42'05"	Py and cp in limy skarn and volcanic rocks.	1898-1916: u/g work from two shafts, dd. 1955-56: geoph survey, dd. 1970-71: Greyhound ML; IP and mag surveys, dd. Prod 658 tons Cu. 1973-74: mag and geochem surveys, dd.	200,000 at 0.6% Cu 1973 (Giant Mascot ML, 1973 AR)	
B.C.-5	MARSHALL Canbec Res L 82 E/2 49°06'37" 118°36'25"	Po, py, cp, sph in garnet-chlorite skarn at contact of Triassic limestone and chert, on the crest of an isoclinal fold. Intrusive rocks are confined to tabular bodies of qtz monzonite and granodiorite.	1938: trenching and dd by Cominco. 1968-70: dd, trenching, geochem survey. 1973: Highland Lode ML: mag survey, 1,000' dd in 9 holes. 1974: bulk sampling.	ind: about 50,000 tons at 0.5 oz/t Au c 1974 (NM 25/10/79)	In No 1 zone to a depth of 50'.
B.C.-6	MOTHER LODE & SUNSET GM Res L 82 E/2 49°06'42" 118°43'	Sediments, including cherts and Mid Triassic limestone are cut by granodiorite and later dykes of porphyry. Sulphide mineralization and magnetite occur in a skarn zone between crystalline limestone and a NE striking fault. The localization of the orebody may be related to drag-folding.	Prod began in 1900. By 1902 u/g workings totalled about 7,000'; shaft to 500', closed in 1918. 1955: mag and EM surveys, dd shaft pillar. Mill operated Jan-Aug 1957 and June 1959 to April 1962. 1970: mag and IP surveys, dd. 1973-74: mag and geochem surveys, dd.	701,378 proven, 740,159 prob, and 864,334 inf, at 0.65% Cu c 1970 (NM 24/09/70)	Mill operated Sept 70-Jan 71 on ore from Greyhound property. Total prod, 1900-62: 178,000 oz Au, 722,000 oz Ag, 40,000 tons Cu from 4,600,000 tons ore. Disposal of milling equipment begun in 1976.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-7	ORO DENORO New Frontier Petroleum Corp. (in 1976) 82 E/2 49°07'35" 118°32'50"	A skarn zone in mid-Triassic limestone extends for 800 to 1,200' from a granodiorite contact. Cp, minor mag and py occur in garnet skarn.	1900: shaft to 225'. 1906-11: British Columbia Copper CL extensive dev; 136,000 tons shipped to smelter in 1903-17. 1965-68: mag, IP, geochem and more than 20,000' dd. 1974-76: mag, EM and IP surveys, dd.	ind: 1,167,000 at 0.95% Cu, 0.02 oz/t Au, 0.3 oz/t Ag 1968 (WM, Oct 1968, p 150)	Some of the indicated tonnage may not be available for o/p mng. Granby Mng CL in 1974 carried out a test mng program with a view to milling at Phoenix, 7 mi away, with unsatisfactory results.
B.C.-8	SYLVESTER K 82 E/2 49°06'20" 118°36'25"	A massive to sub-massive sulphide zone containing po, py, minor cp, and persistent Au values in the .2 to .35 oz range occurs in Palaeozoic metasediments.	1898-1900: trenching. 1981-82: geoph survey, trenching.	est more than 6' by several hundred ft at over 0.25 oz/t Au 1982 (GCNL 18/10/82)	
B.C.-9	ANARCHIST CHROME Pacific Chrome Alloys L (in 1961) 82 E/3 49°01'20" 119°12'10"	Chromite as small angular lenses which appear to be intrusive into limestone of Anarchist Group.	1956-57: trenching, dd. 1961: mag survey and dd.	110,000 at unstated Cr_2O_3 grade 1957 (WCMN 13/09/57)	Estimated in one area of AA anomaly.
B.C.-10	OLD NICK Ayerok Petroleum L 82 E/3 49°2.7' 119°6.6'	A zone of altered rocks, probably originally Anarchist Group sediments but now mainly tremolite, is cut by a large dunite dyke. Ni occurs with po as disseminations in the tremolite rock and in altered dunite adjacent to shear zones. Mineralization over area of about 4,800' by 400'.	1967: dd. 1968: mag and geochem surveys, trenching. 1971: bacterialogical leaching tests. 1972: mag and geochem surveys. 1980: geoph and geochem surveys.	more than 100,000,000 at 0.22% Ni c 1967 (CANMET IR 71-34)	
B.C.-11	SUSAP (KING EDWARD) Cro-Mur Mng & Expl CL 82 E/4 49°06'23" 119°48'20"	Cp and mo with low Au and Ag values in qtz stringers and joint planes at contact of Nelson granitic rocks (Cretaceous ?) and Triassic or earlier volcanic and metasedimentary rocks.	1903: adits and shallow shaft. 1918: adit and trenching. 1921: a 4th adit driven. 1962-63: trenching, dd, geoph and geochem surveys. 1967-68: geoph and geochem surveys. 1970-73: geoph and geochem surveys, dd. 1979: trenching, dd.	ind: approx 1,000,000 at 0.108% MoS_2, 0.155% Cu 1979 (NM 07/12/79)	United Hearne Res L hold option in 1979.
B.C.-12	BLIZZARD Norcen Energy Res L Campbell Res Inc E & B Expls L 82 E/10 49°37' 118°55'	Uranium mineralization, believed to be autunite, in palaeostream channel or basin in Valhalla intrusive.	1976-78: dd.	known reserves: 2,208,000 mt at 0.2145% U_3O_8 (Campbell Chibougamau ML 1979 AR)	Mineable by o/p. Seven year moratorium on uranium expl imposed Feb. 1980.

B.C.-13	CARMI Vestor Expls L 82 E/11 49°31'05" 119°10'00"	Biotite-granodiorite of Jurassic Nelson batholith intruded by a two-mica granitoid of the Cretaceous Valhalla intrusive. Two mineralized breccia zones (the "E" and "Lake") are localized within the Nelson unit. Mo in angular Nelson fragments and within the qtz-rich breccia matrices. Brannerite is restricted to the qtz matrix of a portion of the "E" zone.	1970-72: mag, IP and geochem surveys, dd in 6 holes. 1974: geochem survey, dd. 1974-76: Granby option - IP survey, dd. 1976: Craigmont option - mag, IP and geochem surveys, dd. 1978: Union Oil option, geoph survey. 1979-80: dd.	dd-ind: 38 million at 0.151% MoS_2 1977 (Vestor Expls L, shareholders news release 21/09/77) or dd-ind: 27 million at 0.10% MoS_2 in "E" zone (Vestor Expls L, Interim Rept 30/06/80)	Where drill-intersected, uranium averages 1.0 lb/t U_3O_8.
B.C.-14	KETTLE (HYDRAULIC LAKE) New Tyee Res L 82 E/14 49°47'45" 119°11'40"	Uranium mineralization (autunite) in thin layer of unconsolidated Middle Tertiary sandstone, conglomerate and regolith which overlies Coryell intrusions and older rocks and are, in turn, overlain by plateau basalt.	1976: Tyee Lake Res L discovered uranium mineralization by dd. Noranda-Kerr Addison joint venture option - IP survey and dd. 1978: Placer Dev L option.	Over 2 million mt containing in excess of 1.5 million lbs U_3O_8 1977 (NM 20/04/78)	Seven year moratorium on uranium exxpl imposed Feb. 1980.
B.C.-15	BAYONNE Goldrich Res Inc 82 F/2 49°09'10" 116°57'20"	A new vertical qtz vein in granodiorite of the Bayonne batholith contains Au and Ag values associated with py, gal, sph and cp in well-defined shoots.	1901-11: u/g work in 3 adits. 1921-23: u/g work. 1929-30: u/g work. 1935-42: dev work and mill operated part time. 1945-46: shaft sinking and milling part time. 1963: u/g sampling. 1980: expl and dev work.	prob & poss: 24,900 at 0.79 oz/t Au, est 2.0 oz/t Ag (R W Phendler, 11/10/82 in VSE SMF 111/82, Goldrich Res Inc)	90,000 tons of ore milled in the period 1935-51 produced 41,000 ozs Au, 118,000 ozs Ag, 80,000 lbs Pb, 35,000 lbs Zn.
B.C.-16	ASPEN Extotal Res Inc 82 F/3 49°11'20" 117°11'15"	Replacement zones in dolomitized Palaeozoic Reeves limestone contain banded and disseminated sph with py and po. Gal is locally abundant, and is associated with argentiferous tetrahedrite. Local high Ag values appear to be confined to silicified zones.	1912-20: trenching and u/g work in 3 adits. 1926-29: u/g work in 5 adits and an inclined shaft, dd. 1933-37: additional u/g work and dd. 1952: dd. 1959: Cominco option and dd. 1980-81: expl work, dd.	ind: 32,000 at $9/ton Ag, Au 1937 ind: approx 100,000 in a low-grade zinc zone 1937 (NM 11/03/37)	Dd by Sheep Creek GML in 1951 indicated a considerable tonnage of marginal material.
B.C.-17	VICTORY Mentor Expl & Dev CL 82 F/3 49°08'25" 117°10'35"	Ordovician argillite and limestone intruded by tongues of Jurassic Nelson granite. Calcareous sediments near the granite have been converted to skarn containing disseminations of scheelite and molybdenite.	1932: staked as a molybdenum prospect. 1952-53: Victory Tungsten L option - more than 15,000' dd. 1977: Mentor Expl option - mag and geochem surveys. 1980-81: dd.	ind: 82,000 at 0.54% WO_3 1953 (Mentor Expl & Dev CL, 1977 AR)	
B.C.-18	H.B. David Mnrls L 82 F/3 49°09'10" 117°11'50"	Py and sph in bands, lenses, and disseminated in Lower Cambrian dolomite.	1911-16: u/g work in several adits, dd. 1925-26: new crosscut adit and drifting in oxidized part of orebody. 1948-53: u/g dev. 1955-66: mill operated. 1973-78: mill operated.	meas & ind: 40,000 at 0.1% Pb, 4.1% Zn 1978 (Cdn Pacific L, Form 10-K, 31/12/78)	Mill renovated 1981-82 to treat custom ores.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-19	JACK POT New Jersey Zinc Expl C (Can) L 82 F/3 49°14'30" 117°08'45"	Disseminated sph with minor gal and py in four massive sulphide zones in Lower Cambrian dolomite of the Lieb Fm.	1900-02: u/g work in adits and shaft. 1948-54: geoph survey, trenching, dd and u/g work in two adits. 1966-68: dd. 1975-77: dd. 1981: geoph, dd.	about 3,860,000 at 5% combined Zn-Pb c 1977 (NM 3/03/83)	In 3 zones.
B.C.-20	CENTRE STAR Cominco L (in 1971) 82 F/4 49°04'50" 117°48'20"	Augite porphyrite of the Rossland fm cut by granodiorite of the Jurassic Nelson intrusives. Po, py and cp as replacements along fissures and intrusive contacts. The main mineralization occurs between diorite porphyrite and augite porphyrite and also between monzonite and the porphyrites.	1906-28: Cominco purchased three separate adjacent properties and operated as a unit. The interconnected workings total about 60 mi, extending to a depth of about 1,650'. 1967-68: Falaise Lake ML - option - mag and EM surveys, 10,480' dd in 41 holes. 1969-71: new adit driven 4,300', u/g dd.	ind: 307,400 at 0.204 oz/t Au, 0.61 oz/t Ag, 0.65% Cu 1968 (VSE SMF 11/70, Falaise Lake ML)	In pillars and stope remnants in the upper part of the Le Roi, Iron Mask and War Eagle workings. Total prod 1897-1942: 1,600,000 oz Au, 1,600,000 oz Ag, 27,000 tons Cu from 3,300,000 tons ore.
B.C.-21	GIANT, NOVELTY David Mnrls L 82 F/4 49°05' 117°49'27"	Palaeozoic argillites of the Mount Roberts Fm metamorphosed to various types of hornfels and underlain by a thick sill-like mass of augite and hornblende porphyry. The hornfels contain a mass of breccia, throughout which are irregular masses of rock variously described as diorite, andesite or hornblende porphyry. Mo, po and minor cp occur in the breccia.	1965-66: geoph and geochem surveys and approx 50,000' dd in 119 holes. 1967: Scurry-Rainbow - 46,000' dd in 174 holes. 1973: geochem survey. 1981: dd.	ind: 1,070,280 at 0.282% MoS_2, 0.034 oz/t Au 1967 or 778,500 at 0.34% MoS_2, 0.058 oz/t Au 1971 (P W Richardson 10/80 in VSE SMF 268/80, David Mnrls L).	
B.C.-22	GOLDEN QUEEN and ST. ELMO David Mnrls L 82 F/4 49°05'20" 117°48'20"	Mo, py, po, cp in breccia in Palaeozoic Mount Roberts Fm hornfels. Nearby shr zone contains po, py, cp, scheelite.	1896-1901: 2 adits, 2,300' lateral u/g work. 1964-65: geoph, geochem, str, sampling, dd 47 holes 4,826'. 1966: dd. 1973: geochem.	237,000 at 0.273% MoS_2 1971 (P W Richardson 10/80 in VSE SMF 268/80, David Mnrls L)	
B.C.-23	COXEY (RED MOUNTAIN) David Mnrls L 82 F/4 49°05'20" 117°49'30"	Mo in Palaeozoic Mount Roberts Fm skarn and in brecciated granodiorite dyke.	1897: expl. 1899: adits, shaft. 1964: 152 ddh's. 1966-70: prod 3,553,017 lbs Mo. 1971-72: prod.	270,000 at 0.37% MoS_2 (VSE FS 139/82, David Mnrls L)	David Mnrls L purchased the property, including the 600 tpd mill in 1981.
B.C.-24	MAY & JENNIE Shackleton Petroleum Corp (in 1980) 82 F/6 49°26'25" 117°22'40"	The host rock comprises hornblende and chlorite schists. The mineralized zone consists of interbands of pyritic qtz and schist containing values in gold.	1900-06: u/g work in two adits. 1973: Highland Star ML - option.	ind: 80,000 at 0.25 oz/t Au 1973 (NM 28/02/74)	

B.C.-25	SILVER KING Hoat Ventures L 82 F/6 49°25'15" 117°18'00"	A zone of Jurassic chlorite and sericite schists occurs in plutonic rocks of the Nelson batholith. Two approximately parallel vein lodes consist of qtz, calcite and schist with disseminated tetrahedrite, op, py and gal.	1893-1907: extensive dev by Hall Mng & Smg CL with intermittent prod. 1912-19: Cominco purchased a controlling interest; u/g work and dd. 1965-67: New Cronin Babine ML option - 12,187' dd in more than 54 holes. 1981: feasibility study.	82,700 at 8.6 oz/t Ag, 0.9% Pb, 2.0% Cu 1967 (VSE SMF 07/11/75, Sproatt Silver ML)	Property held by Silver King ML, which is owned by Hoat (75%) and Cominco (25%).
B.C.-26	STEWART J Denny 82 F/6 49°17'10" 117°15'55"	Scheelite in narrow skarn zone in Jurassic sediments.	1942: trenching and sampling. 1943: sampling. 1951-52: adit to 460' and u/g dd. 1976: geochem survey.	330 T/VF at 0.50% WO_3 1951 (Cannon, D M 05/04/51 in Prospectus 30/04/51 Arrow Tungsten ML)	Adit and horizontal drilling at an apparent depth of 100' below outcrop failed to locate significant mineralization.
B.C.-27	TAMARAC Greenwood Expls L 82 F/6 49°18'55" 117°12'20"	Gold-bearing qtz veins in Jurassic feldspar and augite porphyry. Locally up to 3 m of altered gold-bearing wall rock at vein sides.	1896-1902: u/g work in x-cut and drift; minor prod. 1905: minor prod. 1932-33: u/g work and minor prod. 1936-38: new adit driven and limited dd. 1959: bulldozer trenching; 200 tons shipped. 1979-80: geochem survey, dd.	prov, prob, poss: 630,000 at 0.103 oz/t Au 1980 (NM 25/12/80) or prov: 55,890 mt at 0.147 oz/mt Au (NM 21/01/82)	
B.C.-28	WARHORSE (BOY SCOUT) St. Mary's ML (in 1969) 82 F/9 49°33'50" 116°11'10"	Wide shear zone in qtzite of Aldridge Fm contains qtz veins and lenses mineralized with gal, sph, py and some asp.	1890s-1909: two adits driven. 1926-30: No 3 adit driven. 1949: dd. 1950-56: 4,084' drifts and x-cuts in No 4 adit, dd. 1969: dd.	ind: approx 25,000 to 30,000 at 6% Pb, 8% Zn, 5.0 ozs/t Ag c 1956 (NM 30/12/65)	
B.C.-29	MOLLY GIBSON Molly Gibson Silver L 82 F/11 49°44'20" 117°08'50"	Jurassic porphyritic granite of the Nelson batholith. Two qtz veins about 50' apart are locally mineralized with sph and gal.	1906-07: mng and milling. 1910-20: Cominco acquired and intermittent mng and milling u/g work to 1920 about 9,000' drifts, crosscuts and raises in 5 adits. 1930: low-level adit driven 1,850'. 1966-67: Homestake Silver L option - 1,832' drifting.	115,000 at 16.0 oz/t Ag, 2.96% Pb, 3.17% Zn 1965 (NM 23/09/65)	The property produced 2,500 tons Pb and 1 million ozs Ag from 62,000 tons ore treated intermittently between 1899 and 1950.
B.C.-30	ALPINE 82 F/11 49°41'05" 117°15'00"	Auriferous py, gal, sph in 3.5' wide qtz vein cutting porphyritic Nelson granite.	1896: trenching. c 1918-20: two adits driven; Gibson mill operated. 1937-48: lower adit driven; 50 tpd mill operated part time.	100,000 at 0.57 oz/t Au 1949 (F P Surv Ms 1953, p 81 - Alpine GL)	Production 1940-48: 11,000 oz Au, 7,000 oz Ag, 50 tons Pb, 19 tons Zn from 17,000 tons ore.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-31	TILLICUM Esperanza Expls L 82 F/13 49°59'05" 117°42'40"	Native gold occurs locally with sulphides in Triassic Milford Gp schists at or near a contact with Kaslo group amphibolite, and close to a qtz monzonite stock.	1980: discovery. 1981: geol, geochem, geoph, tr, 8 km access road, bulk sampling. 1982: dd.	pot: 1,300 tons per vertical metre in an area 137 x 2.15 metres at 1.544 ozs Au/ton 1982 (GCNL 15/09/82, p 1) Inf: 31,500 at 0.63 oz/t Au 1982 (GCNL 31/03/83)	Heimo-Money pit zone.
B.C.-32	L.H. Andsurex Res Inc 82 F/14 49°53'32" 117°20'20"	Roof pendant of altered Triassic argillaceous and qtzitic rocks in Nelson granite. Au either free or combined with py, asp and cp as replacements and disseminations in qtz veins and wallrock in 20' to 40' wide fracture zone.	1895-1904: u/g work in adit. 1911-13: u/g work by British Columbia Copper CL in 3 adits. 1938: A W Crossley shipped 316 tons. 1945: dd. 1980-81: geoph and geochem surveys.	approx 60,000 at 0.25 oz/t Au 1946 (F C Buckland 23/04/46 in Que G Mng Corp AR 31/01/46)	Mineralized zones are irregular and ill defined. Hudson's Bay Oil and Gas Company Limited holds 60% interest.
B.C.-33	ROCKLAND Riocanex Inc BP Canada Inc 82 F/14 49°52'50" 117°22'05"	Py and cp in shear and breccia zones in Triassic volcanics and adjacent qtz porphyry of the Nelson Batholith.	1899-1904: u/g work in 6 adits; ore shipped. 1931-36: dev ore shipped. 1964-65: dd. 1969-70: geochem survey, dd. 1980-81: dd.	ind: 7,000,000 at 0.4% Cu, 1.5 g/t Au, 6.6 g/t Ag 1981 (Rio Algom L, 1981 AR)	
B.C.-34	COMMERCE Kintla Expls L 82 G/1 49°10'00" 114°23'30"	Precambrian sedimentary and volcanic rocks locally intruded by diorite sills and dykes. Bornite, chalcocite and cp occur locally as replacements in thin sandstone beds, shale and dolomite.	1967: reconnaissance geochem stream sediment survey by Kennco Expl. 1970: 250' dd in 5 holes by Falconbridge. 1972-73: Kintla Expls L: geochem rock survey. 1976-78: geoph survey.	ind: 125,000 at 1.25% Cu, 0.25-0.50 oz/t Ag 1973 (NM 21/02/74)	
B.C.-35	BIG BONANZA Placid Oil C (in 1974) 82 G/11 49°30'12" 115°23'	Cp as fracture fillings and massive replacements in sedimentary rocks of Precambrian Aldridge Fm.	1896: adit. 1968-74: mag, IP, EM and geochem surveys, dd. Two o/p developed. Milling at 750 tpd, 1971-1974, of 520,000 t, recovering 8,000 tons Cu, 204,000 oz Ag and 4,000 Au.	N/A	Planned 700' expl decline to determine feasibility of mng the u/g reserves was abandoned in 1974 after several abortive attempts to collar the portal in ground that could not be economically stabilized.
B.C.-36	KOOTENAY KING Cominco L (in 1974) 82 G/12 49°43'40" 115°35'10"	Precambrian argillites and qtzites intruded by Cretaceous or younger granodiorite or monzonitic porphyries. Gal, sph	1890s-1925: about 1,000' u/g work in 3 adits. 1928-29: drfiting and 3,400' dd. 1952-53: Transcontinental Res	ind: 9,000 at 15% Pb-Zn at closure in 1953 (BC MM 1953, p 150)	

		and py occur as a replacement of dolomitic argillite, localized within a minor dragfold.	L: u/g dev and dd; small mill operated part time. 1970-74: Cominco L: EM and geochem surveys.		
B.C.-37	PAYNE Silvex Res Corp 82 K/3 50°00'30" 117°13'20"	Veins and shr zones in metasedimentary rock contain argentiferous gal, py, sph. Main ore shoot averaged 1,000' in length.	1891: discovery, u/g ops. 1897-99: mining ops. 1902-04: mining ops. 1911-16: u/g expl, dd. 1921: u/g expl. 1935-39: u/g ops. 1941: tr. 1948: u/g work. 1951: u/g expl. 1972: expl.	poss: 30,000 at 7.53% Zn, 1.2 oz/t Ag 1972 (Silvex Res Corp, SMF 254/80, p 24).	
B.C.-38	DUNCAN Cominco L 82 K/7 50°21'50" 116°56'50"	Eight lenticular mineralized zones have been discovered in dolomite of the Late Precambrian Badshot Fm. Py, sph, gal and minor po disseminated in dolomite and siliceous dolomite.	1957-61: Cominco - u/g work in adit and shaft, dd.	ind: several million tons of low-grade Pb-Zn 1961 (BC Bull 49, p 71, 1964)	The crosscut adit was sealed prior to the completion of the Duncan dam, which raised the lake level about 90', flooding a portion of the property.
B.C.-39	MINERAL KING Mountain Mnrls CL 82 K/8 50°20'45" 116°25'35"	Mineralization occurs in the Proterozoic Mt Nelson dolomite and consists of replacements of the dolomite by sph, gal, py, ba and qtz.	1898: u/g dev. 1950-67: dd, new low level adit driven, mill operated. Orebody worked from 4 adit levels and 2 shafts. 1968: purchased by Mountain Mnrls L as a source of barite. 1974: Purcell Dev CL mined from a shaft pillar late that year.	80,000 at 1.0 oz/t Ag, 2.5% Pb, 4.5% Zn c 1967 (BC RD, 1977)	Less about 5,000 tons mined in late 1974. More than 2,300,000 tons treated at intervals between 1928 and 1974 with recovery of Zn, Pb, Cu, Ag, Cd, and barite.
B.C.-40	PARADISE Tri-Basin Res L 82 K/8 50°28'20" 116°18'00"	Pb carbonate, gal, some sph and py in isolated pockets and lenses in bedded veins and fissures which occupy a comparatively narrow zone in folded and shattered magnesian limestone of Mt Nelson Fm near overlying slate contact.	1899-1906: about 5,000' of workings on 3 adit levels. 1926-28: dev on lower levels, milling. 1943-52: dd, dev of lower levels by winzes, intermittent milling. 1974: Purcell Dev CL - attempt to treat mill tailings; geochem survey.	45,275 at 1.95 oz/t Ag, 4.81% Pb, 9.48% Zn c 1952 (NM 25/04/74)	Produced 8,000 tons Pb, 4,000 tons Zn, 740,000 oz Ag from 71,000 tons ore treated at intervals between 1901 and 1952.
B.C.-41	SILVER BASIN Purcell Dev CL (in 1973) 82 K/10 50°41'20" 116°44'40"	Sph and gal as replacements in Proterozoic limestone. Py and cp as disseminations and in qtz veins.	1898: trenching, adits. 1930's: adit driven. 1969-73: EM survey, trenching, dd.	13,426 mt at 2.25 oz/t Ag, 4.73% Pb, 3.34% Zn, 0.16% Cu c 1973 (BC RD, 1977)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-42	TRUE FISSURE Columbia Mtls Corp (in 1973) 82 K/11, 12 50°42'25" 117°29'50"	Sulphide shoots in veins that occur in fault zones within schists and phyllites. Vein fillings consist of qtz, calcite, ankerite and numerous partly replaced fragments of wallrock. Sulphides include py, sph, gal and tetrahedrite.	1890-1900: small scale expl and dev. 1907-30: intermittent operations, 100-ton mill erected. 1952: dd. Workings to date include 4 adit levels, 2 raises. 1966-68: IP survey, dd. 1971: 125 tpd mill erected, minor operations. 1972: IP and EM surveys, dd, o/p preparations, mill destroyed by snow-fall during winter 1971-72.	37,000 proven at 9 oz/t Ag, 6.3% Pb, 7.4% Zn and 57,000 prob at 9.5 oz/t Ag, 6% Pb, 7.6% Zn c 1972 (NM 21/06/73)	
B.C.-43	TROUT LAKE Newmont Expl of Can L Esso Mnrls Can 82 K/12 50°38'15" 117°36'10"	Mo, py and po in qtz vein stockwork in granodiorite stock and adjacent schists of the Precambrian Windermere group.	1969-70: trenching, dd. 1975-76: mag and geochem surveys, dd. 1977-79: dd. 1980-81: u/g expl.	dd-ind: c 50,000,000 at 0.23% MoS_2 (CIM Bull, March 1982, p 130)	
B.C.-44	SPIDER Sunshine Columbia Res L 82 K/13 50°46'33" 117°36'30"	Five en échelon veins occupy fractures in late Precambrian schist of the Lardeau Series. Vein filling is qtz with some calcite and siderite. Py, sph, Ag-bearing gal, and cp line fault remnants or form large ragged lenses or pockets in the gangue.	1910-12: u/g dev. 1914-29: intermittent dev; about 2,000' drifts and crosscuts in 5 adits. 1949-58: dd located 2 new veins. U/g dev in several new adits. Milling May 1952 - May 1958. 1981-82: trenching, dd.	Prob: 58,800 at 0.08 oz/t Au, 2.70 oz/t Ag, 2.00% Pb, 4.25% Zn 1964 (Sunshine Lardeau ML, 1964 AR)	Produced Zn, Pb, Au, Ag, Cu, Cd, Sb from 100,000 tons treated at intervals between 1911 and 1958.
B.C.-45	TEDDY GLACIER Sunshine Columbia Res L 82 K/13 50°52'10" 117°44'50"	Fracture zone in Precambrian calcareous rocks of Lardeau Series. Two main fractures contain gal, py, sph and some cp in a gangue of qtz and wallrock inclusions over widths of from a few inches to 4'.	1934-35: about 1,600' u/g work in 2 adits. 1963-64: 2,676' dd. 1980: dd.	prob and inf: 48,740 at 0.13 oz/t Au, 4.7 oz/t Ag, 7.9% Pb, 6.8% Zn 1964 (Sunshine Lardeau ML, 1964 AR)	
B.C.-46	WIGWAM Parmac ML 82 K/13 50°52'25" 117°58'00"	Gal, sph and py as lenses, disseminations and massive layers a few feet thick in Precambrian limestone containing siliceous zones and layers of cherty rock.	1924-31: Wigwam Mng CL - 1,963' u/g dev in 13 adits, 5,877' dd in 28 holes. 1968-69: dd, geochem surveys. 1977: geoph survey. 1981: dd.	697,558 ind at 2.14% Pb, 3.54% Zn and 8,481,212 inf at approx same grade c 1969 (Parmac ML, Prospectus 06/72)	

B.C.-47	RUTH, VERMONT Ruth Vermont ML 82 K/15 50°56'50" 116°58'50"	Qtz veins in Precambrian limestone and slate are mineralized with gal, sph, py, asp, cp, boulangerite, argentiferous tetrahedrite, and locally scheelite. Replacement mineralization occurs in limestone adjacent to the Nelson vein.	1889-95: intermittent work in adit, small ore shipments. 1926-30: number of short adits driven. 1956-57: dd and geochem survey. 1965-67: u/g dev, dd. 1969-76: 500 tpd mill installed, intermittent prod. 1981: test milling.	prov, prob, poss: 302,000 at 6.8 oz/t Ag, 4.8% Pb, 5.4% Zn 1982 (NM 20/05/82)	Potentially profitable if silver is over $US 8 per oz.
B.C.-48	VOWELL & MALLOY CREEK PLACERS Western Uranium Expl Inc 82 K/15 50°49'40" 116°47'50"	Uranium oxide and pyrochlore in post glacial placer sand and gravel in Upper Bagaboo and Vowell creeks. Source rock porphyritic qtz monzonite of Bagaboo batholith.	1954: churn dd. 1968-69: scint survey, trenching, churn dd in 77 holes. 1978: churn dd in 60 holes.	(i) Vowell Ck: 12,750,000 yds^3 at (lb/yd^3) 0.038 U_3O_8, 0.25 Cb_2O_5, 0.056 ThO_2, 10 magnetite, 3 ilmenite (ii) Malloy Ck: 12,200,000 yds^3 at (lb/yd^3) 0.039 U_3O_8, 0.165 Cb_2O_5, 0.116 ThO_2, 13.5 magnetite, 1 ilmenite 1969 (J M Black, 1969 as quoted by C R Saunders 08/03/74 in VSE SMF 13/04/74, Tapin Copper ML) or 20,000,000 yds^3 at 0.036 lb/yd^3 U_3O_8, 0.331 lb/yd^3 Cb_2O_5 (NM 25/10/79)	Data suspect because of too few assays, imprecise method of analysis and other factors.
B.C.-49	BIG LEDGE Cominco L 82 L/8 50°28'20" 118°05'05"	Sph, py, po, gal and marcasite as replacements and in fractures and breccia zones in a folded assemblage of marble and diopsidic qtzite of the Shuswap metamorphic complex.	1927: to date u/g work in 4 adits; dd. 1947-53: 6,100 m dd. 1964-66: mag and geochem surveys, 13,217' dd in 29 holes.	500-1,000 million lbs contained Zn plus minor Pb c 1966 (CIM Spec Vol No 8, Fig 14-1, 1966)	Tonnage N/A; grade less than 6% Zn-Pb.
B.C.-50	FX (KINGFISHER) Colby Res Corp 82 L/10 50°43'50" 118°43'50"	Stratabound Zn in marble, qtzite and calc-silicate gneiss of Shuswap metamorphic complex. Structure dominated by 4 faults. Sph, gal, po and py as disseminations producing a crude banding.	1963-65: mag survey, dd. 1968-69: mag and geochem surveys, 600' dd. 1973-74: geoph and geochem surveys, 5,604' dd in 25 holes. 1975: 145 m dd in 6 holes. 1976-77: geochem survey, dd.	ind: approx 1,800,000 at 0.58% Pb, 2.60% Zn 1974 (E O Chisholm 15/10/74 in VSE SMF 25/10/74, Colby ML)	
B.C.-51	KING FISSURE Int'l Standard Res L 82 M/1 51°07'40" 118°24'40"	Gal, sph, po, py and locally barite in a layer up to 10' thick in calc-silicate gneiss of the Shuswap metamorphic complex.	1890s: 3 short adits. 1956-58: trenching, sampling. 1963: 4,929' dd in 5 holes. 1965-66: 7,979' dd in one fan of 4 holes.	South limb (No 1 lode): 2,872,700 at 1.1 oz/t Ag, 5.1% Pb, 5.6% Zn, with 10% dilution 1961 (C Riley, CIM Trans, p 272, 1961)	Deep dd since this calculation was made indicates a much greater potential. (Fyles, 1970, BC Bull 57, p 48).

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-52	BC & ZINC CLAIMS Orell Res L 82 M/4 51°00'30" 119°30'40"	Dis sph, gal, cp, po and mag occurs in siliceous phyllites and greenstones of the Palaeozoic or earlier Eagel Bay Fm.	1964-67: geoph and geochem surveys, stripping, dd. 1976-68: geoph and geochem surveys, dd.	(i) Zinc Claim: ind: 163,000 at 0.19% Cu, 0.53% Pb, 2.43% Zn, 0.25% Cdn, .001 oz/t Au, 1.45 oz/t Ag (ii) Bowler Creek Zone: ind: c 200,000 at 0.2% Cu, 1.0% Pb, 2.7% Zn, 1.6 oz/t Ag 1979 (J M Black, 15/04/81 - in SMF 109/81, Orell Res L)	
B.C.-53	HOMESTAKE Kamad Silver CL 82 M/4 51°06'27" 119°49'45"	Tetrahedrite, gal, sph, py, cp, argentite, and some native silver in alternating bands of schist and barite in talcose qtz sericite schist and phyllite of Shuswap metamorphic complex.	1894-1952: intermittent expl, dev, small scale prod, 3 adits, 1,500' of drifts. 1968: 6,200' dd, geoph, geochem. 1970: geochem. 1971-72: 3,300' u/g work, 4,144' dd. 1973-74: new main haulage adit driven about 1,900' with a raise to ore zone; 2,253' dd in 12 holes. 1980: bulk sampling. 1981: dd.	prov: 1,114,340 at 7.0 oz/t Ag, 0.55% Cu, 2.5% Pb, 4.0% Zn, 28% Ba plus approx 500,000 ind at same grade 1972 (FP 13/01/73) or prov: 800,000 at 6.03 oz/t Ag; prob: 82,000 at 6.4 oz/t Ag 1980 (NM 29/01/81)	Caving occurs in unsupported ground. Test milling in 1981 for flow sheet design.
B.C.-54	LUCKY COON Adams Silver Res Inc (in 1977) 82 M/4 51°04'32" 119°36'15"	Sph, gal, argentite, py and occasional tetrahedrite in qtz veins in impure argillitic beds of a Palaeozoic or earlier metamorphic sequence cut by diorite dykes.	1920s: trenching, short adit, dd. 1972-73: quarry-type mng in trenches, geoph survey. 1977: stripping. 1981-82: geoph survey, dd.	3,450 proven at 7.91 oz/t Ag, 7.09% Pb, 4.81% Zn and 3,450 inf at same grade 1973 (W G Hainsworth in VSE SMF 17/10/73, Cons Giant Metallica L)	1,360 tons shipped in 1977.
B.C.-55	MOSQUITO KING Orell Res L 82 M/4 51°02'50" 119°30'40"	Gal, sph, po and py over widths of 2 to 10' as selective replacements of several thin closely proximate beds in a thick assemblage of metamorphic rocks of probable Palaeozoic age.	1928: trenching. 1949: Cominco option - trenching, 2,861' dd in 20 holes. 1966-67: mag, IP, gravity, EM and geochem surveys, 3,200' dd. 1977-78: Craigmont option, geoph and geochem surveys, dd. 1979: dd. 1981-82: geoph, dd, test milling with portable mill.	(i) A1 claim: prov: 6,000 at 0.6 g/t Ag, 11.6% Pb, 6.45% Zn (ii) A2 claim: prov: 4,000 at 1.64 oz/t Ag, 5.56% Pb, 5.9% Zn 1981 (GCNL 21/10/82 or 45,000 at 7.0 oz/t Ag, 10% Pb, 8.5% Zn 1980 (NM 09/04/81)	

B.C.-56	SPAR 1 Quintaine Res Inc (in 1960) 82 M/4 51°03'35" 119°32'45"	Sph, gal, py and po as selective replacements in folds and crumpled zones in sericitic phyllite in thick assemblage of metamorphic rocks of probable Palaeozoic or Earlier age.	1949-50: trenching and ore shipped. 1953: mag survey, 2,500' dd in 31 holes. 1966: geochem, gravity and EM surveys, 3,000' dd in 11 holes. 1976-77: dd, 181 tonnes shipped.	19,000 at 10 oz/t Ag, 15% Pb, 10% Zn 1971 (V Zachenko 19/04/71 in VSE SMF 17/05/71, Giant Metallics ML)	
B.C.-57	EBL R Moore & J Gourlay (in 1976) 82 M/5 51°19'45" 119°47'00"	Cp in felsic schists and garnet gneiss at contact of Cretaceous Baldy batholith.	1969-74: geoph and geochem surveys, dd. 1976: geochem survey.	dd-ind: a substantial tonnage of low-grade Cu mineralization 1970 (Royal Cdn Ventures L, 1970 AR)	Values range from 0.20 to 0.44% with minor Mo, Au and Ag.
B.C.-58	COTTON BELT Great Northern Petroleums & ML (in 1973) 82 M/7 51°26'30" 118°49'20"	Gal, sph, po, mag and garnet over widths of 18" to 4' in shoots parallel to bedding in schists and gneisses of Shuswap metamorphic complex.	1905-22: trenching and u/g work in several adits. 1925-28: Cotton Belt ML - about 2,000' of drifts, crosscuts and raises in 4 adits; 3,333' dd in 16 holes. 1966-71: mag, IP and EM surveys. 1978: Metallgesellschaft Can L (option), dd, geoph surveys.	ind: 800,000 1952 (EMJ Vol 153, July 1952, p 156)	Preliminary assays indicate a grade of 2.0 oz/t Ag, 6% Pb, 5% Zn.
B.C.-59	J & L Westaire ML (in 1966) 82 M/8 51°17'05" 118°07'56"	Sph, gal, asp, py and cp in lenses and bunches, partly in a well defined shear zone and partly by replacement of footwall limestone, at or near the contact with qtz sericite schist.	1890s-1922: adit to 217', 135' inclined shaft, 170' drift and crosscut, 125' winze. 1946: adit extended. 1965-66: adit driven 892', 462' dd.	37,100, grade unstated (A R Allen 24/07/57 in Raindor GML Prospectus, 08/10/60)	Sampling over 300' x 3' avg 0.13 oz/t Au, 3.71 oz/t Ag, 5.03% Pb, 7.46% Zn. Metallurgical tests indicate poor recovery.
B.C.-60	BLACK DIAMOND (REXSPAR) Cons Rexspar Mnrls & Chemicals L 82 M/12 51°33'35" 119°54'40"	A trachyte member composed of a layered complex of porphyritic feldspathic tuffs, breccias and flows contains uraninite and uranothorite disseminated in those areas in which biotite, sericite, py and fluorite are abundant.	1950: presence of uranium confirmed. 1953-57: adits driven on A and BD zones, dd on A, B, BD and F zones. 1969-70: geoph surveys. 1973: dd. 1975-76: feasibility study, dd.	1,114,158 mt at 773 g/mt U_3O_8 1978 (CIM Bull, Dec 1978, p 82)	Amenable to open pit mining. Seven year moratorium on uranium exploration imposed Feb 1980.
B.C.-61	SPAR (REXSPAR) Cons Rexspar Mnrls & Chemicals L 82 M/12 51°33'50" 119°54'20"	Fluorite, py and celestite in breccia zone in highly feldspathic porphyritic rocks which are part of a Permian or Earlier assemblage of greenstone and qtz-feldspar-chlorite-gneiss.	1918: staked. 1929-30: short adit driven. 1942-43: 4,985' dd in 36 holes, bulk sampling. 1957: 572' dd in 4 holes. 1960-63: trenching, dd. 1970: geochem soil survey, 3,908' dd in 26 holes. 1972: geochem survey and dd.	meas and ind: 1,500,000 at 29% CaF_2 and inf: 500,000 same grade (Cons Rexspar Mnrls & Chemicals L, 1968 AR)	1,300,000 recoverable by o/p.
B.C.-62	RUDDOCK CREEK Falconbridge L 82 M/15 51°46'37" 118°53'57"	Sph, gal, py, po, minor cp and locally barite and fluorite as contorted layers and lenses in mica schist, calc-silicate schist, gneiss and marble of the Shuswap metamorphic complex.	1962-63: dd. 1973: airborne mag and EM surveys. 1975-78: Cominco option, dd.	Several million at 10% Pb-Zn 1970 (BC Bull 57, p 48, 1970)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-63	HAWK CREEK 82 N/1 51°06'10" 116°02'40"	Massive and disseminated sph in calcite veins and stringers in dolomitic limestone adjacent to shear zone.	1929-32: staked, trenching. National Parks Board disallowed further work. 1942: trenching, short adit, dd for Federal Metals Controller.	ind: 29,500 at 12.5% Zn (BC RMM 1953, p 156)	In Kootenay National Park.
B.C.-64	CROWN POINT Beverly ML (in 1970) 82 N/3 51°02'30" 117°08'30"	Gal and sph as veins and replacements in dragfolded and faulted Proterozoic limestone of Horsethief Creek Group.	1898: 150' adit. 1928-36: 4 adits and 5 raises totalling about 2,500' on the main (A) showing; 6 short adits on other showings. 1948-49: further u/g work, dd. 1966: airborne EM survey. 1970: 1,336' dd in 4 holes.	ind: 39,530 at 3.42 oz/t Ag, 6.24% Pb, 0.18% Zn 1948 (NM 20/08/70)	
B.C.-65	REGAL SILVER, SNOWFLAKE Stannex Mnrls L (in 1970) 82 N/4 51°11'40" 117°54'15"	At least 5 parallel qtz sulphide veins in slates of Lower Cambrian and Later age. Vein widths range from a few inches to as much as 30'. Ore shoots are extremely irregular and consist of py, sph, gal, scheelite and small amounts of stannite in a qtz gangue.	1928-30: Regal Silver ML - u/g work in adits. 1949-54: further u/g work, 50 tpd mill operated part time. Workings to date totalled about 15,000' in 9 adits. 1967-69: geoph and geochem surveys, 8,100' u/g work. 1970: feasibility study.	726,000 at 2.64 oz/t Ag, 2.25% Pb, 1.15% Zn and 40,000 proven-prob at 1.3% WO_3 1970 (NM 26/11/70)	
B.C.-66	MONARCH, KICKING HORSE 82 N/8 51°24'48" 116°26'00"	Sph, gal and py in zone of fracturing, dolomitic alteration and brecciation in Cambrian dolomitic limestone.	1884-1918: u/g dev in separate workings on opposite sides of Kicking Horse River; small amounts of ore shipped or milled. 1928-52: dev, 300 tpd mill operated 1929-30, 1933-35, 1940-44, 1946-52.	ind: 30,000 at 7.4% Zn at time of closing 1952 (CMH 1954, p 18)	In Yoho National Park. The property produced 800,000 ozs Ag, 50,000 tons Pb, 78,000 tons Zn and 30 tons Cd from 800,000 tons ore treated intermittently between 1888 and 1953.
B.C.-67	BEND Cominco L (in 1970) 83 D/1 52°03'05" 118°13'20"	Banded to massive py, sph and gal in mid-Cambrian dolomite between micaceous schist and qtzite.	1967, 1970: dd. 1976: Seaforth ML, mag and geochem soil surveys.	6+ million at 4% Pb-Zn c 1967 (J T Fyles, BCI 83 D/C-1)	Partially flooded by Mica Dam.
B.C.-68	CANOE Outland Res Corp 83 D/14 52°45'20" 119°17'20"	Muscovite in Proterozoic mica-kyanite-staurolite-qtz schist.	c 1960-61: test runs on 225 tons of mica products by Georgian Mnrl Ind L. 1961: 18 ddh's by Magcobar Mng CL. 1978: EM, tr, dd.	drill proven: 2,285,000 at 60.5% muscovite plus fairly assured: 1,000,000 (GCNL 5/03/82)	

B.C.-69	TWIN "J" (TYEE) Peppa Res L 92 B/13 48°52' 123°47'	Replacement mineralization in two separate and parallel zones in a band of cherty tuffs and graphitic schists. One zone comprises py, cp, sph and gal in a gangue of barite, qtz and calcite; the other is mainly qtz and cp.	1890s-1907: developed as three separate operations by over 2 mi of workings in adits and a shaft. Two smelters built. 1924-39: intermittent expl and dev. 1942-52: dd, mill installed and operated part time. 1969-72: EM, IP and geochem surveys, dd. 1978: S.E.R.E.M. Ltd option.	350,000 at 1.6% Cu, 0.12 oz/t Au, 4.1 oz/t Ag, 0.65% Pb, 6.6% Zn c 1952 (NM 25/09/69)	Produced 10,000 tons Cu, 2,100 tons Zn, 200 tons Pb, 800,000 oz Ag and 38,000 oz Au from 306,000 tons ore, between 1898 and 1951.
B.C.-70	SUNRO (JORDAN RIVER) Sunro ML 92 C/8 48°27' 124°01'	Tertiary volcanics intruded by sill-like masses of Sooke gabbro ranging in width from 500 to 3,000'. Cp, po and py in shear zones in hornblendized basalt at gabbro contacts.	1917-21: u/g dev in adits, dd. 1949-50: dd. 1957: new adit driven 7,400'; dd. 1961-68: dev work; u/g mill operated intermittently. 1972-74: mill operated April 1972 to December 3, 1974.	1,136,000 proven at 1.47% Cu and 467,184 prob at 1.33% Cu June 1973 (NM 27/12/73)	Est 360,000 tons milled subsequent to June 1973. A total of 1,465,000 tons were milled between 1962 and 1974, yielding 15,000 tons Cu, 62,000 oz Ag, 6,000 oz Au.
B.C.-71	INDIAN CHIEF Texada ML (in 1973) 92 E/8 49°26'50" 126°18'35"	Bornite, cp and magnetite occur as segregations in metamorphosed limestone and as irregular disseminations in limestone, andesite and tuff at a granodiorite contact.	1897-1904: u/g work in adits. 1907-09: tramway installed and ore shipped. 1917-23: dev work with intermittent milling. 1938: dev and milling. To date about 3,250' drifts, crosscuts and raises in about 12 adits. 1956-63: geoph survey, dd. 1973: mag and geochem surveys.	1,360,800 at 1.5% Cu 1967 (BC RD, 1977)	The property produced 700 ozs Au, 54,000 ozs Ag, and 1,200 tons Cu from 81,000 tons ore treated intermittently between 1904 and 1938.
B.C.-72	DANZIG Danzig Ms Inc (in 1952) 92 E/9 49°37'20" 126°21'35"	Sph and minor cp, po and mag with qtz, calcite and diopside in lenses partly replacing a limestone bed along a greenstone contact.	1938: adit driven. 1948: drifting. 1951-52: 337' drifting and 2,777' dd in 23 holes.	some 30,000 of medium grade Zn 1951 (Transcontinental Res L, 11th AR, Dec 31, 1951)	Assays of 15 to 20% Zn were reported from u/g work.
B.C.-73	VILLALTA CaneMin Res L 92 F/1 49°06' 124°28'	Sicker Gp sediments and volcanics, intruded by diorite and dacite porphyries, contain values in gold, zinc and copper. A hematite zone contains low gold values.	1977-78: trenching and sampling. 1980-81: dd. 1982: geoph and geochem surveys.	200,000 at 0.1 to 0.2 oz/t Au 1981 (NM 10/09/81)	
B.C.-74	BLACK PANTHER Oliver Res L 92 F/2 49°05'55" 124°36'35"	Shear zone in Sicker Gp volcanics contains py, gal, and sph in qtz lenses.	1936-39: u/g work in 5 short adits. 1941: u/g work in 2 new adits. 1947-48: 25 tpd mill installed and operated. 1980: geochem survey, sampling, dd.	poss: 13,500 at 0.2 oz/t Au (Sawyer Consultants Inc, 30/04/81 - in SMF 115-81, Jan Res L).	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-75	CATFACE Falconbridge L 92 F/5 49°15'25" 125°58'50"	Qtz monzonite porphyry intrudes Palaeozoic Sicker volcanics. Cp, bornite, chalcocite and mo in a stockwork in qtz monzonite, in porphyritic qtz diorite and in volcanics.	1960-64: geoph survey, 16,765' dd in about 80 holes. 1967-68: geoph and geochem surveys, 22,628' dd in 19 holes. 1970-71: adit driven 2,800' with 23,697' u/g dd in 29 holes.	181,440,000 mt at 0.45-0.50% Cu 1971 (BC RD, 1977)	
B.C.-76	SHERWOOD 92 F/5 49°27'55" 125°31'20"	Au and sulphides in qtz veins and lenses in shear zone cutting volcanics and intrusives and locally following the contact.	1940-42: u/g work in 3 adits. Small ore shipment in 1942. 1945: sampling.	ind: 27,830 at 0.65 oz/t Au c 1945 (NM 29/05/47)	In Strathcona Provincial Park.
B.C.-77	LYNN CREEK 92 G/6 49°25'15" 123°03'40"	Sph, gal, po, cp and py in qtz or skarn in shear zones cutting Jurassic and Cretaceous sedimentary and volcanic rocks adjacent to diorite of the Coast intrusives.	1893-1909: Limited dev work; claims Crown-granted. 1912-27: u/g work in x-cuts and drifts; dd. 1951-52: dd. 1963: geoph survey, feasibility study.	inf: 300,000 grade unstated 1963 (WM, Nov 1963, p 32)	Grade reported to be in the order of 20% Zn (NM 31/10/63). Access subject to regulations of North Vancouver Water District.
B.C.-78	VIKING 92 G/7 49°21'35" 122°33'55"	Po, py, cp in qtz-calcite gangue in shear zone cutting qtz diorite of Coast intrusives.	1897-99: u/g dev on 3 levels in adit and shaft. 1915-16: tramline installed and small ore shipments. 1920's: Hydro plant installed. Mill of 50 tpd capacity partially installed in 1929 but never completed.	16,000, grade unstated 1923 (BC RMM 1923, p 262)	Rough tonnage estimate. Recovery of 232 ozs Ag and 11,356 lbs Cu from 198 tons shipped in 1916.
B.C.-79	BRITANNIA Copper Beach Estates L 92 G/11 49°36'40" 123°08'30"	A roof pendant of slaty tuffs and greenstone is underlain by Coast intrusives. The No 10 is a massive zone averaging better than 1.5% Cu and containing some Ag.	1964: No 10 zone discovered. 1969: u/g dev began. 1970-74: shaft, winze and trackless ramp system completed, mng and milling. Closed Nov 1, 1974.	meas and dd-ind: 1,570,000 at 1.9% Cu in place, in No 10 zone 1974 (BC GEM 1974, p 196)	The mine produced 53 million tons of Cu-Zn-Pb-Ag-Au-Cd ore between 1905 and 1974.
B.C.-80	GAMBIER ISLAND 20th Century Energy Corp 92 G/11 49°30'35" 123°20'50"	Cp and mo in a porphyry plug and adjacent volcanics.	1960-64: trenching. 1967: dd. 1971: geoph survey. 1978-80: geoph and geochem surveys, dd. 1981: dd, bulk sampling, environmental studies.	inf: 281,600,000 at 0.27% Cu, 0.014% MoS_2, 0.042 oz/t Ag, 0.001 oz/t Au 1979 (NM 30/08/79) or mineable 112,000,000 at 0.29% Cu, 0.018% Mo (NM 18/12/80)	
B.C.-81	HOWE COPPER Seatac Res Inc 92 G/11 49°42'35" 123°27'10"	Biotite granite of Coast plutonic complex intruded by lens-like body of muscovite granite. Cp, bornite, and minor mo disseminated in alteration zone at upper contact. Bornite, cp, cuprite, mo, with Ag values, in qtz veins.	1874-83: trenching, 3 adits driven. 1929: radiore survey. 1966-67: geoph survey, dd. 1972: airborne geoph survey, trenching. 1975: geol mapping.	500,000 mt at 0.2% Cu c 1967 (CIM Spec Vol 15, Table I, No 15, 1976)	

B.C.-82	CANAM GM Res L 92 H/3 49°09'50" 121°01'25"	A pipe-like zone of brecciated sediments contains po, cp and py as pockets in the matrix and as veinlets cutting both matrix and fragments.	1930-38: discovery, Cominco option - u/g work in 6 adits. 1951-63: u/g work in 3 new adits, a raise and winze, dd. 1964-65: u/g work and dd. 1967-70: geoph and geochem surveys, u/g work and dd. 1980-81: dd.	Drill-proven: 2,777,984 at 1.35% Cu, 0.017 oz/t Au, 0.72 oz/t Ag, 0.033% MoS_2. Inf: in order of 10 million tons at 0.6 to 0.8% Cu (GM Res L, 1979 AR)	In AM zone, after dilution.
B.C.-83	LUCKY FOUR McNellen Res Inc 92 H/4 49°09'47" 121°34'50"	Qtz-feldspar-mica schists and gneisses occur as a skarn zone adjacent to a Tertiary granodiorite intrusive. Disseminated cp occurs in the skarn in varying amounts to form low to medium grade zones and high grade lenticular concentrations.	1917-19: adit driven, dd. 1951-55: new adit driven, dd on surface and u/g. 1971: mag survey, dd.	inf: 28,282 at 4.3 oz/t Ag, 5.1% Cu 1982 (VSE - Applic List 13/83, McNellen Res Inc)	
B.C.-84	EUREKA VICTORIA Vanstates Res L 92 H/6 49°18'30" 121°27'40"	Tetrahedrite, siderite and py occur in qtz veins in shear zones in Cretaceous conglomerate of the Jackass Mountain Gp.	1068-74: mining in glory hole and 2 adits. 1924-25: u/g work. 1962-63: new adit and raise driven. 1980: sampling. 1981: u/g work.	ind: 42,000 at 13.1 oz/t Ag inf: 12,000 at same grade (VSE SMF 23/83, 1981 Vanstates Res L)	
B.C.-85	SILVER CHIEF 92 H/6 49°25'05" 121°03'30"	Ag-bearing gal, sph and pyrite in qtz and carbonate in fault zone in argillite of Pasayten Fm.	1910-15: u/g work in shaft and x-cut adits. 1926-27: No 3 x-cut adit driven. 1929-34: some dev work. Mill installed and operated intermittently. 1951-57: u/g dev. Mill installed and operated 1 month; mill removed in 1957.	ind: 65,000 at 10 oz/t Ag, 7% Pb, 10% Zn 1955 (Precambrian, Oct 1955, p 25)	
B.C.-86	GRANITE MOUNTAIN Northern Lights Res L 92 H/7 49°19'50" 120°52'15"	Gal, sph, W, in Au-Ag bearing qtz vein in Coast granodiorite.	1942: trenching. 1969: adit to 150'. 1979: sampling. 1980: dd.	poss: 80,000 at diluted grade of .265 oz/t Au, 2.33 oz/t Ag 1979 (R W Phendler 17/10/79 in VSE SMF 28/02/80, Northern Lights Res L)	To projected depth of 300' and mining width of 3.0'. Dd in 1980 indicated much lower values.
B.C.-87	CANTY Good Hope Res L 92 H/8 49°22'40" 120°00'10"	Gold-bearing vein-like zones occur in folded metamorphosed rock adjacent to a large granitic dyke.	1905: shaft. 1937-39: geoph survey, dd, u/g work in shaft on 2 levels. 1941: ore shipped to Hedley mill. 1946: dd. 1980: dd. 1982-83: dd, feasibility study.	dd ind: 362,000 at 0.15 oz/t Au ind and inf: 750,000 at 0.1 oz/t Au (GCNL 11/02/83)	To 200' depth. To 400' +.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-88	GOLD MTN (POLLOCK) Banbury GML 92 H/8 49°21'20" 120°07'30"	Qtz veins in shear zones in Upper Triassic Nicola Group argillites and cherts near the contact with an irregular stocklike body of diorite. The qtz is locally mineralized with asp, py, sph, cp and gal. Gold is associated with the asp.	1900-10: open cuts and several x-cut adits. 1927-36: u/g dev in several adits and dd. 1937: 50 ton mill operated about 4 months. 1979-80: tr and dd. 1981-82: u/g dev, dd, feasibility study.	(i) inf: 166,200 at 0.32 oz/t Au 1981 (ii) inf: 19,500 at 0.15 oz/t Au 1981 (VSE-SMF 14/83, Banbury GML)	In Pine Knot vein. In Maple Leaf vein.
B.C.-89	HEDLEY-MASCOT Good Hope Res L 92 H/8 49°22'30" 120°02'10"	Au-bearing arsenopyrite in irregular sheet-like contact metamorphic zones in Upper Triassic sediments adjacent to basic intrusive sills and dykes.	1934-49: u/g dev in several x-cut adits; mill operated. 1982: dd.	11,000, grade unstated. 1949 (Hedley Mascot GML, 1949 AR)	Tonnage on Nick of Time claim, which was held under option until 1949. Total prod, 1936-49: 230,000 oz Au, 55,000 oz Ag, 950 tons Cu from 680,000 tons ore.
B.C.-90	NICKEL PLATE Mascot GML 92 H/8 49°22'25" 120°01'50"	Au-bearing arsenopyrite disseminated in garnet-pyroxene rock as irregular sheet-like contact metamorphic zones in Upper Triassic sediments adjacent to basic intrusive sills and dykes.	1904-31, 1935-55: extensive u/g dev in adits and three inclined shafts to a depth of about 2,500'; mill operated. 1968, 70: geoph and geochem surveys, dd. 1973: dd. 1979-82: rehabilitation, sampling, dd.	dd-ind: 498,700 at 0.288 oz/t Au undil above 450 level; 47,500 at similar grade below. (Mascot GML, AR 1982) Sunnyside zone: 38,500 at 0.51 oz/t Au 1982 (NM 16/12/82)	Total prod, 1904-55: 1,364,000 ozs Au, 134,000 ozs Ag, 1,000 tons Cu from 3,300,000 tons ore.
B.C.-91	FRISCO Newmont ML 92 H/8 49°20'23" 120°29'30"	Hematite, mag, cp and py occur in a brecciated zone of shearing in diorite of Upper Triassic age.	1911-12: u/g work and dd. 1934: work to date included several adits and a shaft. 1950s: work by Cominco and Granby. 1964-68: mag and geochem soil surveys. 1977-78: trenching.	c 242,943 at 1.21% Cu, 0.04 oz/t Au to 300' 1973 (A D Wilmot 03/07/73 in VSE SMF 17/08/73, Cumont ML)	In 7 zones. Newmont began mining adjacent Copper Mountain orebody in 1981.
B.C.-92	AXE Global Energy Corp 92 H/10 49°37'10" 120°31'30"	Felsic and mafic intrusives in mafic volcanics. Volcanic contact areas are hornfelsic and contain cp and mo in highly fractured, pyritic zone. Three zones have been extensively explored.	Early 1900s: prospecting, short adit. 1967-73: IP, mag, EM and geochem surveys, dd. 1980: Cominco L, option.	(i) South Zone: 41,000,000 ind at 0.48% Cu (ii) West Zone: 6,400,000 ind at 0.47% Cu (iii) Adit Zone: 16,000,000 ind at 0.56% Cu 1973 (NM 06/09/73) or 115,000,000 ind at 0.36% Cu (NM 06/09/79)	Resource estimation is crude due to poor drill core recovery.

B.C.-93	GEM Amax Potash L (in 1975) 92 H/12 49°43'12" 121°43'05"	Granodiorite, schist and gneiss host rocks intruded by a composite stock of qtz monzonite breccia, granite and aplite. Mo occurs, mainly in granodiorite, in an arcuate zone around the NE edge of the qtz-monzonite porphyry breccia.	1930s: prospecting, trenching. 1962-64: dd, adit driven on mo-bearing qtz vein. 1965-68: IP, resistivity and geochem soil surveys, dd.	ind: 30,000,000 at 0.205% MoS_2 1966 (FR 04/07/66)
B.C.-94	NAGY Rhyolite Res Inc 92 H/12 49°39' 121°59'15"	Low-grade gold values occur locally in shallow dipping volcanics and adjacent diorite intrusives.	1981-83: geochem surveys, dd.	ind: c 250,000 mt at 0.1 oz/t Au, 2.0 oz/t Ag geol inf: 1,000,000 mt (NM 19/05/83)
B.C.-95	PAY Westward Energy & Res Corp (in 1978) 92 H/15 49°54'50" 120°34'45"	Cp, bornite and chalcocite disseminated in finely brecciated andesite in shear zone in Upper Triassic volcanics.	1899-1913: trenching, adit driven. 1963-67: trenching, dd, bulk sampling, bacterial leaching tests, IP survey. 1973: mag and EM surveys, dd. 1978: EM survey.	pot: up to 20,000 at 1.20% Cu 1973 (NM 07/02/74)
B.C.-96	PRIMER Giant Piper Expl Inc 92 H/16 49°45'20" 120°27'30"	Cp, py, mag and qtz as fracture fillings in Jurassic granodiorite which intrudes Nicola Group volcanics.	1937-41: trenching. 1962: mag, EM and geochem surveys. 1966: dd. 1968-69: IP and geochem surveys, dd. 1971-73: mag and IP surveys, dd. 1977-78: trenching, geoph survey. 1979: option by Newmont Expl of Can L.	23,000,000 mt at 0.20% Cu c 1973 (CIM Spec Vol 15, Table 1, No 20, 1976)
B.C.-97	PORCUPINE Pentagon Res L 92 I/2 50°02' 120°36'30"	Disseminated chalcocite, bornite, cp, native copper occur in a basalt bed about 10' thick in Nicola Group volcanics.	Early work in 50' shaft. 1960-64: geoph surveys, dd. 1966-69: IP and geochem soil surveys, dd. 1972: dd. 1978-79: geoph survey and dd.	138,000 ind at 2.0% Cu c 1967 (NM 02/02/67) or 500,000 poss at 1.9% Cu c 1969 (NM 04/12/69)
B.C.-98	DIVIDE COPPER Lornex Mng Corp L 92 I/6 50°27'40" 121°01'15"	Qtz diorite of the Guichon Creek batholith cut by a 30-m wide sheared, veined and pervasively oxidized zone. Py and cp in a qtz vein, locally as pods of massive sulphides and as disseminations throughout areas of sericite, chlorite and carb alteration in the shear zone.	pre-1916: u/g work in adit, winze and shaft. 1956-57: geochem survey, u/g work, dd. 1962: dd. 1965-67: heap leaching tests. 1968: dd.	3,500,000 at 0.45% Cu 1957 (NM 11/07/68) or in vein approx 40,000 mt at about 1.5% Cu and in shear zone geol reserves of about 100,000 mt at similar grade 1974 (BC GEM 1974, p 134)

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-99 ABERDEEN Teck Corp 92 I/7 50°18'10" 120°51'25"	Seams and narrow lenses of chalcocite in a fracture zone in granodiorite of the Guichon Creek batholith.	1899-1905: u/g work in shaft and adit. 1915-17: u/g work and minor prod. 1925-28: intermittent dev and minor prod. 1956-60: EM, SP and geochem surveys, dd. 1969-72: EM, mag and geochem surveys, dd.	Small tonnage of high-grade copper ore c 1957 (Highmont Mng Corp, 1977 AR)	Produced 120 tons Cu, 9 ozs Au and 780 ozs Ag from 1,800 tons ore between 1907 and 1960.
B.C.-100 ANN (GNAWED MTN) New Minex Res L (in 1976) 92 I/7 50°25'15" 120°58'25"	Sulphides in veins and stringers in the pegmatite granite and grey qtz diorite phases of the Guichon Creek batholith. Mnrls include bornite, molybdenite, hematite, cp and covellite. Some pure molybdenite occurs as stringers in the wallrock.	pre-1940s: 2 shallow shafts. 1957: acquired by B.X. Mng CL. 1963-65: Anaconda optioned Ann and several adjoining properties. Geochem and geoph surveys, dd. 1969-70: dd by Trojan Cons ML, which acquired control of B.X. Mng. 1972: name change from Trojan to B.X. Dev L. 1976: acquired by New Minex Res L.	45,000,000 at 0.26% Cu, 0.005% MoS_2 to 400' 1969 (NM 19/03/70) or 47,820,000 at 0.27% Cu c 1972 (NM 20/06/74)	
B.C.-101 J.A. Cominco L 92 I/7 50°28'35" 120°58'30"	A small stock of qtz-plagioclase aplite grading inward to biotite-qtz monzonite occurs at the contact of Guichon and Bethlehem qtz diorites. Cp, bornite, Mo in fractures and veins in the aplite and as weak disseminations throughout the stock.	1971-72: extensive dd.	286,280,000 at 0.43% Cu, 0.017% Mo 1973 (Bethlehem Copper Corp, 1973 AR)	Preliminary o/p design to extract 125 to 150 million tons of ore. Approx. 130,000,000 at 0.51% Cu, 0.027% Mo mineable by block caving.
B.C.-102 JERICHO Teck Corp 92 I/7 50°26'45" 120°54'30"	Sulphide-bearing stringers in the qtz diorite phase of the Guichon Creek batholith. Mineralization consists of bornite, cp, chalcocite plus Ag and molybdeum values.	1956-58: geoph surveys, dd. 1960-65: geoph surveys, dd. Two adits driven to No 1 zone, bulk sampling. 1969: IP survey. 1971-73: dd. 1974: geochem soil survey. 1978: dd.	ind: approx 300,000 at 1% Cu c 1973 (Highmont Mng Corp, 1977 AR)	
B.C.-103 LUCKY MIKE Cominco L (in 1976) 92 I/7 50°18' 120°41'20"	Scheelite, cp, py and po in garnet skarn at limestone-greenstone contact in Upper Triassic Nicola Group rocks.	1916-17: staked, dd, shallow shaft. 1942-43: restaked, trenching, dd. 1958-59: dd. 1971: dd. 1972: mag, EM and geochem surveys, dd. 1973: geoph and geochem surveys. 1976: IP and geochem soil surveys.	drill-prov: 350,000 at 0.60 oz/t Ag, 0.56% Cu, 0.30% WO_3 1973 (C H Donaldson 12/07/73 - in VSE SMF 25/07/73, Brendon Res L)	

B.C.-104 MINEX Teck Corp 92 I/7 50°25'43" 120°59'28"	A 400' wide composite dyke of granodiorite, porphyry and breccia cuts qtz diorite of the Guichon Creek batholith. Cp, bornite and mo in qtz veins in breccia and adjacent rocks.	1957: acquired by Minex Dev L. 1959: geoph and geochem surveys, trenching. 1961-62: trenching. 1963-65: Anaconda optioned Ide and several adjoining groups. Geochem and geoph surveys, dd. 1966: trenching and dd. 1968-69: Cdn Superior Expl L option - IP and geochem soil surveys, dd. 1974: name change to New Minex Res L. 1976: claims sold to Highmont Mng Corp.	(i) AM 32 Fr: 12,656,000 at 0.27% Cu, 0.01% MoS_2 (ii) Ide 2 claim: 11,711,000 at 0.17% Cu, 0.02% MoS_2 (iii) Ide 10, AM 12, 14 claims: 12,000,000 at 0.16% Cu, 0.02% MoS_2 TOTAL: 36,367,000 at 0.20% Cu, 0.016% MoS_2 1970 (Bacon & Crowhurst L 11/03/70 in VSE SMF 02/02/72, Minex Dev L)	
B.C.-105 PEN (YUBET) Teck Corp 92 I/7 50°23'00" 120°57'25"	Bornite and cp in qtz veins in aplite dyke within Guichon Creek batholith.	1965-66: IP, mag and geochem surveys, dd. 1970: EM and IP surveys, trenching. 1974: EM survey.	33,750 at 2.25% Cu and 12,000 at 1% Cu 1970 (BC Asmt Rept 2901)		
B.C.-106 REY Tracer Res Corp 92 I/7 50°20'00" 120°41'55"	Cp and mo occur as disseminations in a qtz monzonite stock, in veinlets in the stock and adjacent Nicola Group volcanics, and in a breccia zone at the contact.	1972-73: geoph and geochem surveys, dd. 1974-75: dd.	drill ind & prob: 51,662,000 at 0.17% Cu, 0.018% Mo 1979 (R W Phendler 30/11/79 in VSE SMF 22/04/80, Tracer Res Corp)	Strip ratio 1.12:1.	
B.C.-107 SHEBA Sheba Copper ML 92 I/7 50°26'40" 120°59'35"	Cp and bornite in fractures and qtz veins and as replacements of mafic mnrls in qtz diorite and granodiorite of the Guichon Creek batholith. Mineralization is widely dispersed but very low grade.	1956-59: staking, trenching, mag survey. 1961-62: road construction uncovered Peel showing. IP survey, dd. 1967-68: IP and geochem surveys, dd. 1971-74: geochem survey, dd. 1976: dd. 1977: Bethlehem Copper option, dd.	250,000 at 0.7% Cu c 1971 (BCI 92 I/SE-10)		
B.C.-108 SUNSHINE (Tolman) CDR Res Inc 92 I/7 50°18'40" 120°46'10"	Py, sph, gal and cp in irregular shear zone in Triassic andesite porphyry. Three mineralized zones located.	1964-65: trenching, mag survey, dd. 1967-68: trenching, dd, adit driven on No 3 zone. 1971-72: u/g and surface dd. 1977-78: geoph and geochem surveys, dd. 1980: dd.	(i) No 3 Zone: 285,000 ind at 0.36 oz/t Ag, 1.69% Pb, 4.80% Zn, 0.18% Cu to 150' 1971 (ii) No 2 Zone: 50,000 to 60,000, about same grade, to 100' 1971 (J P Elwell 23/06/71 in VSE SMF 08/03/72, Highland Lode ML)	Grade difficult to determine due to very poor drill core recovery. Grade based on drill core and adit sampling.	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-109 VIMY 100 Lawrence Mng Corp 92 I/7 50°19'10" 120°50'35"	Bornite and cp occur in fracture zones in granodiorite of the Guichon batholith.	c 1900: u/g work in shaft. 1925: shaft deepened. 1956-57: geoph and geochem surveys, dd. 1959: trenching, dd. 1970-72: dd, geoph survey. 1980-82: trenching, geoph survey, dd.	dd ind: 903,000 at 0.35% Cu 1959 (R H Seraphim 07/11/80 in VSE, SMF 48/81, Lawrence Mng Corp).	
B.C.-110 WIZ 21 and 30 (Vimy 200) Lawrence Mng Corp 92 I/7 50°20'12" 120°51'40"	A strong shear from 2 to 30' wide cuts qtz monzonite of the Guichon Creek batholith. Cp, bornite, chalcocite and native copper in clay gouge and qtz filled fractures in the shear. Cp also occurs as disseminations in the footwall.	1908-15: trenching, short adits and shallow shaft. 1965: Zone 4 discovered during road construction. Mag, IP, EM and geochem soil surveys, trenching, dd. 1968: IP and EM surveys. 1980-82: geoph survey, dd.	ind: 324,000 at 1.26% Cu to 250' 1972 (M H Sanguinetti 20/04/72 in VSE SMF 26/06/72, Aselo Ind L)	Zone tested to a depth of only 170'.
B.C.-111 AJAX Cominco L 92 I/9 50°36'40" 120°23'15"	Cp occurs as stringers, blebs, and disseminations in albitized microdiorite (Sugarloaf intrusions) of the Iron Mask batholith.	1898-1924: intermittent dev in shallow shafts and adits, dd. 1929: Cominco option - dd. 1954-67: Cominco, geoph surveys, dd. 1973: IP survey, dd.	10,000,000 at 0.5% Cu 1969 (J B Prendergast 30/01/69, Rept for Pinnacle ML)	
B.C.-112 EVENING STAR Pan Ocean Oil L (in 1977) 92 I/9 50°38'35" 120°25'20"	Copper mineralization associated with a zone of altered volcanics containing widespread albitic alteration within microdiorite of the Iron Mask batholith.	1899-1906: u/g work in adit and shaft. 1956-57: trenching, dd. 1961: geoph surveys, trenching and dd. 1965: geoph and geochem surveys, dd. 1969: Kimberley Copper ML option - u/g work from old shaft, dd. 1971: u/g work and dd. 1977: geoph survey, dd.	proven: 4,000,000 at 0.58% Cu and ind: 2,000,000, same grade 1969 (United Bata Res L, Rept, 15/05/69)	
B.C.-113 LORNA Comet Ind L 92 I/9 50°39'50" 120°28'00"	Cp in breccia in Cherry Creek microdiorite and porphyry of the Iron Mask batholith.	1899-1906: 2 shafts and adit. 1956-58: geoph and geochem surveys. 1965-66: geoph and geochem surveys, dd. 1972-73: IP, mag, EM and geochem surveys, dd. 1976: dd.	ind: 2,500,000 at 0.5% Cu 1972 (MM Oct 1972, p 85)	In "Crescent Zone".

B.C.-114 PYTHON Int'l Makaoo L 92 I/9 50°38'35" 120°23'40"	Within the Iron Mask batholith dioritic rocks adjacent to a large lens of peridotite are strongly shattered, altered with albite, and contain cp as stringers, lenses and disseminations in the shattered zone and as disseminations in the adjacent rock.	1896-1910: intermittent u/g work in 2 shafts and adit. 1916: dd. 1955-70: u/g dev from shaft, EM, IP and geochem surveys, dd. 1972-73: IP and geochem surveys, dd. 1978-79: dd.	(i) Python Zone: 220,000 at 1.11% Cu 1972 (ii) Copperhead Zone: 115,000 at 1.13% Cu 1978 (iii) Noonday Zone: 600,000 at 0.74% Cu 1978 (C T Pasieka 06/06/80 - in VSE SMF 27/08/80, Int'l Makaoo L)	
B.C.-115 RAINBOW Pacific Seadrift Res L 92 I/9 50°38'10" 120°27'50"	Dissemination and irregular bands of cp and py in brecciated rock within fault zones which cut the microdiorite of the Sugarloaf intrusions on the SW edge of the Iron Mask batholith.	1896: two 50' shafts, adit. 1961: trenching and dd. 1965-69: mag, IP and geochem surveys, dd. 1971-74: dd, IP and mag surveys. 1976-77: dd. 1979: dd. 1981: dd.	about 11,157,000 ind at 0.58% Cu plus 7,530,000 inf of expectedly comparable grade, to 1,000' 1979 (T L Sadlier-Brown 30/05/79 in VSE SMF 18/07/79, Seadrift Res L)	
B.C.-116 VICTOR Initial Developers L 92 I/9 50°39'50" 120°26'35"	Cp and mag in diorite of the Iron Mask batholith at a faulted contact with picrite-basalt.	1897-1905: intermittent u/g dev in several shafts and adit. 1952: EM survey, shaft deepened, u/g dev, dd. 1956: u/g work from shaft 90' level, dd, EM survey. 1972-73: IP, EM and mag surveys, dd. 1976-77: dd. 1981: dd.	13,000,000 at 0.7% Cu, 0.02-0.04 oz/t Au (NM 10/07/80)	Referred to as "Big Onion Zone".
B.C.-117 KRAIN Robak Industries L 92 I/10 50°34'15" 120°59'45"	Cp, py and bornite associated with a 1,000 x 200 m dyke-like stock of qtz diorite, resembling the Bethlehem phase, intrusive into qtz diorite (Guichon variety) of the Guichon Creek batholith.	1907: two short adits. 1955-58: mag and geochem soil surveys, dd. 1965-73: geoph and geochem surveys, dd. 1975-76: dd. 1978: assessment work. 1982: T.V.R. Mnrls Corp - option.	ind: 14,000,000 mt at 0.56% Cu, 0.01% Mo (0.3% Cu cutoff) to o/p depth of 250 m 1972 (CIM Spec Vol 15, pp 182, 185, 1976) or 35,000,000 at 0.37% Cu (NM 17/03/77)	Of the total indicated tonnage about 9.1 million mt contain primary sulphides and 4.9 million mt contain secondary copper carbonates and oxidation products.
B.C.-118 TROJAN New Minex Res L 92 I/10 50°32'30" 120°59'30"	A breccia zone in qtz diorite of the Guichon Creek batholith adjacent to a major fault. Cp occurs in an embayment at the NW contact of the breccia zone as disseminations and locally as replacement of the matrix mnrls and in stringers and faults.	1903: u/g work in adits. 1955-64: u/g work in shaft and drifts, dd, IP survey. 1966-68: u/g workings extended, dd. 1969-70: geochem survey, dd. 1972: dd.	17,422,000 at 0.75% Cu 1968 (NM 18/04/68) or 170,000 prob at 1.56% Cu, o/p material 1972 (H Brodie Hicks 27/10/72 - in VSE SMF 24/01/73, Leemac ML)	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-119 MER Cons Cleveland Res L (in 1972) 92 I/11 50°30'10" 121°08'00"	Granodiorite cut by a narrow dyke of Bethlehem phase granodiorite, all of the Guichon Creek batholith. Both rocks show partial chloritization, some sericitization and qtz veining. Bornite, cp and chalcocite as disseminations and fracture platings.	1965-66: trenching, dd, IP survey. 1969-70: IP survey, dd.	640,000 at 0.327% Cu in a zone 240' x 400' to 80' 1971 (E O Chisholm 30/09/71 in VSE SMF 05/05/72, Kalco Valley ML)	
B.C.-120 MAGGIE Cominco L 92 I/14 50°55'30" 121°25'10"	A complex multiphased intrusion designated "qtz monzonite porphyry" interfingers with host Cache Creek ultramafics. Cp occurs in a stockwork and as disseminations throughout the porphyry.	1890s: shaft and drifts, adits. 1952, 63-64, 68-69: dd. 1970: dd encountered mineralized zone. 1971-72, 75: dd. 1977: geoph survey.	ind: 181,440,000 mt at 0.28% Cu, 0.029% Mo c 1971 (CIM Spec Vol 15, p 329, 1976)	
B.C.-121 SUNNY CAVE Brandy Res Inc 92 J/3 50°03'55" 123°08'45"	Roof pendant sediments, greenstones and minor rhyolite, cut by a wide shear zone containing scattered lenses, disseminations and streaks of py, sph and gal.	1923-36: u/g work in 3 adits. 1966-68: mag and EM surveys, dd. 1970-71: EM, IP and geochem soil surveys, dd. 1973-74: dd. 1977: concentrator operated intermittently Sept-Dec. 1980: u/g work, dd, mag, EM and geochem surveys.	(i) Block A: 111,800 prob at 0.008 oz/t Au, 12.10 oz/t Ag, 0.19% Pb, 0.43% Zn (ii) Block B: 161,200 poss at similar grade (iii) Block C: 60,700 poss at 0.02 oz/t Au, 11.6 oz/t Ag, 0.27% Pb, 0.45% Zn c 1974 (NM 08/07/76)	Van Silver ML installed 150 tpd mill in July 1977. Not sufficient reserves to warrant production. (NM 19/03/81)
B.C.-122 TEDI Brandy Res Inc 92 J/3 50°05' 123°08'30"	Low-grade disseminations of py, cp, sph and gal, with some streaks or lenses of higher grade, occur in altered sedimentary and volcanic roof pendant rocks of late Palaeozoic or early Mesozoic age.	1926-36: trenching, adit driven. 1967-71: mag, EM and geocehm soil surveys. 1973-74: dd. 1976: stripping in preparation for o/p mng. 1977: intermittent mng and milling Sept-Dec. 1980: mag, EM and geochem surveys, dd.	prob: 137,000 at 3.68 oz/t Ag, 0.01 oz/t Au, 0.22% Cu, 2.07% Pb, 2.04% Zn 1974 (NM 24/10/74) or ind: 137,000 at 0.03 oz/t Au, 2.5 oz/t Ag, 0.65% Cu, 5% Pb-Zn 1976 (NM 24/02/77)	8,000 tonnes milled in 1977 at Sunny Cave property; in part from the Tedi open pit.
B.C.-123 OWL (COPPER QUEEN) J Scott & L Harrison (in 1974) 92 J/7 50°23'50" 122°47'50"	Cp, mo and py as blebs, disseminations and fracture fillings in qtz diorite, feldspar porphyry and dioritized volcanic rocks. Four showings, A, B, C, and D over a distance of about 2.5 mi.	1913-18: prospecting, adit driven. 1928: dd on 'A' showing. 1963: trenching and sampling. 1969-70: IP, mag and geochem soil surveys and dd on 'A' and 'C' zones. 1972: mag, EM and geochem soil surveys, dd. 1974: IP, mag and geochem soil surveys, dd.	(i) C Zone: 10-20 million ind at 0.3-0.4% Cu 1970 (NM 17/12/70)	

B.C.-124	RUSSNOR (GRISWOLD) Thunder Creek ML (in 1972) 92 J/14 50°54'40" 123°25'30"	A fracture zone at the contact between qtz diorite and younger granite contains disseminations and small pods of cp, bornite and py with minor Au and Ag values.	1928-30: discovery, adit driven 1970-72: sampling in old adit, dd in 6 holes; geochem soil survey.	ind: approx 600,000, no grade stated 1970 (NM 13/07/72)	Sampling in the adit averaged 1.31% Cu for a length of 100'.
B.C.-125	BRALORNE, PIONEER Bralorne Res L 92 J/15 50°46'50" 122°48'50"	Gold in qtz filled fractures averaging 5 to 6' wide in augite diorite and greenstone in the Cadwallader shear.	1892-1911: initial work by a number of individuals or small groups. 1928-59: separate dev and milling operations by Bralorne ML and Pioneer GML. 1959-71: combined operation by Bralorne Pioneer ML. 1980-82: jv with E & B Expls Inc, surface and u/g dd.	proven: 1,000,000 at 0.28 oz/t Au 1982 (George Cross Newsletter, p 30, 20/09/82)	Between 1899 and 1971 Bralorne mine produced 2,800,000 ozs Au from 5,500,000 tons milled. Pioneer mine produced 1,300,000 ozs Au from 2,700,000 tons treated during the 1908-60 period.
B.C.-126	CONGRESS Levon Res L 92 J/15 50°54'09" 122°47'18"	Volcanics and sediments of the Fergusson Series intruded by felsite and ultrabasic dykes and irregular masses of gabbro. Stibnite occurs in narrow qtz veins in a shear zone. Gold occurs in bodies of replaced greenstone.	1934-38: Dev work in 3 adits and internal shaft. 1946-47: u/g work. 1960-62: trenching on new vein discoveries. U/g work on Congress vein. 1964-65: trenching, dd. 1977-78: dd on new vein discovery. 1983: dd.	semi-proven and prob: 101,700 at 0.21 oz/t Au, 1.16% Sb (A R Bullis, Aug 1970 as reported by H Brodie Hicks 20/06/79 in VSE SMF 08/08/79, New Congress Res L)	"For the most part, the data on which the reserve calculations were based are unknown or unconfirmed and they must be considered as tentative." (H Brodie Hicks 20/06/79).
B.C.-127	LITTLE GEM Northern Gem Mng Corp L (in 1960) 92 J/15 50°53'50" 122°57'35"	Qtz diorite intruded by feldspar porphyry dykes and cut by a fracture system which locally contains pegmatite lenses in widths up to 7' and lengths up to 16'. The lenses are mineralized with Co, Au, U.	1934-40: intermittent work in 2 adits. 1953: u/g dd. 1956-57: crosscutting, drifting and u/g dd.	ind: 20,000 at 0.65 oz/t Au, 3.0% Co, 0.25% U_3O_8 1957 (CMH 1960, p 185)	
B.C.-128	COLDEN EAGLE Corvus ML (in 1972) 92 J/16 50°56'12" 122°15'50"	Cinnabar occurs as small veinlets, blebs, disseminations and films on fracture planes in volcanic breccia and its anker-itized equivalents in the Yalakom fault zone.	1938-41: trenching. 1966-67: trenching, 15,638' dd, adit driven 438' on No 1 showing. 1972: trenching, stripping. 800' u/g work.	reasonably assured: 707,50 at 5.11 lbs/t Hg, ind: 1,076,000 at 3.31 lbs/t Hg and inf: 1,826,000 at unstated grade 1971 (E P Sheppard 22/01/71 in VSE SMF 27/07/71, Condor ML)	
B.C.-129	O.K. Aquarius Res L 92 K/2 50°02'30" 124°38'50"	Diorite and gabbro of the Coast complex intruded by a composite stock comprised of granodiorite with a central core of leuco-granodiorite porphyry. Cp, mo and py occur in altered granodiorite at the porphyry contact.	1966-69: geochem, IP, mag surveys, 16,119' dd. 1972: IP and geochem soil veys, 14,031' dd. 1973: Sierra Empire ML option. 1974: Western ML option - 12,695' dd. 1977: dd. 1980: geoph and geochem surveys, dd. 1982: field work.	dd-ind: 49,000,000 mt at 0.30% Cu, 0.016% MoS_2 and inf: 19,000,000 mt at 0.26% Cu, 0.02% MoS_2 (at 0.20% Cu cutoff and assuming that barren dykes wider than 3 m can be mined as waste) (CIM Spec Vol 15, p 315, 1976) or inf: 450,000,000 at 0.33% Cu equivalent 1982 (NM 24/02/83)	Barren andesitic and dacitic dykes seriously dilute the mineralized body.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-130 COPPER ROAD E Adams (in 1980) 92 K/3 50°11.9' 125°18.8'	Bornite, chalcocite, cp and native Cu in a shear zone up to 30' wide in andesitic lavas.	1953-62: prospecting, dd. trenching, shaft to 50', small high-grade shipments. 1963: IP, 13,000' dd in 28 holes. 1965-68: 942' drifting and raising. 1969-70: IP, mag and geochem surveys, 6,350' dd. 1973: dd in 2 holes. 1975: trenching.	(i) West Zone: 91,740 dd-ind at 4.1% Cu, 0.4 oz/t Ag (ii) East Zone: 75,090 dd-ind at 2.44% Cu, 0.4 oz/t Ag 1971 (A F Roberts 11/05/71 in VSE SMF 24/07/72, Univex Mng Corp L)	
B.C.-131 DOE Quadra Mng CL (in 1978) 92 K/3 50°06'07" 125°16'00"	Chalcocite in fractured amygdaloidal andesitic volcanics.	1952: dd in 22 short holes. 1968: dd in 20 holes.	ind: 4,500 at 3.05% Cu 1973 (F G Cooke 12/04/73 in VSE SMF 07/05/73, Prince Stewart ML)	Resource estimated by Cooke based on a re-evaluation of earlier data compiled by Sheppard and Weber.
B.C.-132 POMEROY Quadra Mng CL Quadra Bell Mng CL (in 1978) 92 K/3 50°07'00" 125°16'10"	Chalcocite, native Cu, and cp occur in fractures, qtz calcite veinlets, anygdules, or as local disseminations in andesitic volcanic flows of the Karmusten Fm.	1907-19: trenching, dd, ore shipments to smelter. 1952-53: 8,800' dd in 145 holes. 1975-78: trenching.	(i) Pomeroy 1: 12,300 ind at 3.55% Cu (ii) Pomeroy 2 N: 5,000 ind at 2.70% Cu (iii) Pomeroy 2 S: 25,000 ind at 2.11% Cu (iv) Pomeroy 3: 194,500 ind at 0.67% Cu (v) Pomeroy 4: 10,500 ind at 2.69% Cu (vi) Beaver 1: 18,000 ind at 1.74% Cu (F G Cooke 12/04/73 in VSE SMF 07/05/73, Prince Stewart ML)	Resource estimates by Cooke are based on a re-evaluation of earlier data compiled by Sheppard and Weber.
B.C.-133 ALEXANDRA J MacLeod, M Warshawski 92 K/6 50°29'20" 125°22'45"	Py and cp carrying Au and Ag values in qtz veins in a belt of metamorphosed sedimentary and volcanic rocks within the Coast Range batholith.	1897-98: several adits. 1923: raise from No 1 adit. 1927-31: u/g work in 5 adits and 268' shaft. 1934: u/g work. 1939-40: mng over several months. 1976: geochem survey. 1980: Corpac Mnrls L, option, geochem survey.	ind & inf: 19,299 at 0.306 oz/t Au 1934 (G A Noel 08/10/80 in SMF 57/81, Corpac Mnrls L)	
B.C.-134 COLOSSUS Gardiner Res Inc 92 K/11 50°31'55" 125°12'05"	Cp in erratic lenticular lenses in a 40-50' wide shear zone in granodiorite.	1892-1903: about 3,000' u/g work in 3 adits. 1961: u/g dd 363'. 1966-68: mag and SP surveys, 5,047' dd in 33 holes. 1980: sampling.	130,000 at 2-3% Cu 1929 (FR 22/08/66)	

B.C.-135 BIG STAR Glencair Res L 92 L/2 50°00'48" 126°46'40"	Qtz stringers containing py, asp, sph and gal in shear zone in qtz diorite.	1937-42: u/g dev in 2 adits. Ore trammed to mill on adjacent Spud Valley property. 1946: reopened, new adit begun 300' below old No 3 adit. Work suspended due to a fire.	70,000 at 0.136 oz/t Au at time of closing June 1942 (Spud Valley GML, notice to shareholders 18/12/42)	Prod included in Spud Valley.
B.C.-136 SPUD VALLEY Glencair Res L 92 L/2 50°00'52" 126°47'45"	Qtz-sulphide veins in shear zones in qtz diorite. Sulphides include py, sph, gal and asp.	1935-37: u/g dev in 3 adits. 1938-42: 125 tpd mill installed and operated.	55,000 at 0.136 oz/t Au in old workings at time of closing 1942 (Spud Valley GML, notice to shareholders 18/12/42) or inf: 286,000 at 0.288 oz/t Au 1983 (Glencair Res Inc, Interim Rept 21/03/83)	Prod 1936-51: 54,000 ozs Au, 18,000 ozs Ag, 10 tons Cu, 9 tons Pb from 210,000 tons ore (includes Big Star).
B.C.-137 UEBEL New Privateer ML 92 L/2 50°01'55" 126°48'55"	Cu in two zones about 40' apart in alteration zone at qtz diorite-andesite contact.	1961: mag survey and 5,732' dd in 24 holes. 1964, 1971: dd.	(i) A Zone: 97,000 at 1.98% Cu (ii) B Zone: 64,000 at 2.02% Cu 1961 (NM 29/03/62)	
B.C.-138 YREKA Uke Res L 92 L/5 50°27'25" 127°33'55"	Po, cp and py and Au-Ag values in skarn zones in Triassic sediments and volcanics.	1898-1905: mng from open cut and u/g work in 3 adits. 1916-17: open cuts and 2 new adits; ore shipped. 1951-56: trenching, dd, 2 new adits driven. 1965-67: u/g work; mill operated Nov. 65-Sept. 67. 1979-80: rehabilitation of u/g workings, dd.	ind: 118,450 at 1.05% Cu, 0.02 oz/t Au, 0.60 oz/t Ag (C W Ball, 23/03/81 in VSE SMF 61/81, Uke Res L)	
B.C.-139 CATHERINE Alice Lake ML Ican Res L 92 L/6 50°25'50" 127°24'	Po, sph, asp and gal with calcite and qtz replacing Vancouver Group limestone adjacent to a qtz porphyry dyke.	1903-06: trenching. 1929: prior Cominco dd. 1973-75: Zeballos Dev CL lease - dd and o/p preparation. Prod lease issued but short of funds. 1978: Astra Res L option - mag survey, some ore stockpiled.	proven: 51,000 at 8.7% Zn, 0.95 oz/t Ag and prob: 51,000 (no grade stated) to 50' 1974 (VSE SMF 24/81, Alice Lake ML)	
B.C.-140 COAST COPPER Quatsino Copper-Gold ML & Empire Dev CL (in 1975) 92 L/6 50°22'50" 127°14'30"	Cp, bornite and mag in a skarn zone at the contact of Karmutsen andesitic volcanics and Quatsino limestone near diorite-gabbro intrusives.	1915-31: extensive u/g work in adits and shaft. 1960-64: 750 tpd mill installed and in prod. 1965-70: drift extended 5,000' into adjacent Merry Widow property and 3 ore zones located by dd. Decline driven 6,275', prod began from this area. 1972: mine closed in Nov.	501,000 at 1.3% Cu, 33.3% Fe, 0.2 oz/t Au 1973 (VSE SMF 22/09/75, Quatsino Copper-Gold ML)	In Merry Widow section. Produced 1962-1972: 45,000 tons Cu, 577,000 tons Fe concentrate, 122,000 oz Au and 174,000 oz Ag from 2,800,000 tons ore.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-141 ZIP Mar-Gold Res L 92 L/7 51°21'50" 126°54'40"	Karmutsen volcanics and Quatsino limestone intruded by qtz diorite to granodiorite. Gal, sph, po, cp and py occur in limestone or volcanics at the intrusive contact and as replacements in limestone.	1930: Cominco option, trenching. 1948: trenching. 1966: Cominco, geochem survey. 1968: geochem soil survey, trenching, 750' dd in 8 holes. 1970-73: mag and geochem surveys. 1981-82: geoph and geochem surveys, dd.	ind: 80,000 mt at 1.69% Cu, 3.7% Pb, 12.5% Zn, 1.88 oz/mt Ag 1981 (Imperial Mtls Corp, 1982 AR)	
B.C.-142 CALEDONIA North Island ML (in 1972) 92 L/12 50°38'55" 127°36'15"	Epidote-garnet skarn containing mag, cp and sph at Quatsino limestone-granodiorite contact.	1927-29: several hundred feet u/g work in adit. 1966-72: mag and geochem surveys, dd.	75,000 at 0.01 oz/t Au, 20.54 oz/t Ag, 6.09% Cu, 0.6% Pb, 7.45% Zn, outlined by u/g work to 1929. (D C Malcolm 24/04/72 in VSE SMF 05/07/72, North Island ML)	
B.C.-143 NAHWITTI LAKE Giant Expls L (in 1973) 92 L/12 50°41'40" 127°47'25"	Gal and sph in irregular patches and lenticular zones in Quatsino limestone. Largest zone is 125' or more long and from a few inches to about 12' wide. Assay over 8': 2.48 oz/t Ag, 0.60% Pb, 2.06% Zn.	1930-31: trenching, u/g work in adit and shallow shafts. 1966-73: mag, IP, EM and geochem surveys, trenching, 4,733' dd in 38 holes.	pot: 50,000 Pb-Zn, grade unstated 1966 (BC Asmt 870, 1966, Giant Expls L in BCI 92 L - 242	
B.C.-144 MORRIS McNellen Res Inc 92 N/8 51°23'40" 124°25'40"	Narrow gold-silver-bearing qtz veins occur in Triassic sediments which have been intruded by qtz-feldspar porphyry dykes and by qtz diorite of the Coast Range batholith.	1907-11: two adits driven. 1920-22: surface prospecting, trenching. 1934-37: No 1 adit extended. 1968: geol mapping, sampling. 1980-81: sampling, dd.	poss: 38,000, grade unstated (GCNL 30/08/82)	In No 1 vein over 190 m strip length and 84 m in depth. Bulk sample assay: 0.79 oz/t Au, 12.57 oz/t Ag, 2.92% Sb.
B.C.-145 SPOKANE Stryker Res L 92 N/8 51°23'50" 124°25'15"	Cp and bornite as dis and fracture fillings in Triassic andesite of the Takla Group.	1907-10: u/g work in 2 adits. 1968: geol mapping, sampling. 1980: sampling.	1,500' x 20' at 1.04% Cu (R W Phendler, 23/09/68 - as reported by C W Ball in SMF 114/81, Stryker Res L) or inf: 335,664 tonnes at 1.2-1.5% Cu (BCI 92 N-1)	
B.C.-146 SILVERQUICK Quicksilver Res L 92 O/2 51°02'30" 122°49'	Cinnabar as disseminated grains, streaks, small lenses and smears on fault surfaces in brecciated Jurassic conglomerate.	1943: trenching. 1963-64: surface work, installation of 10 tpd reduction plant which operated briefly. 1966: geochem survey, trenching, 538' dd. 1968: construction of 500 tpd mill about 80% completed. O/p preparation.	proven: 390,000 at 2 lb/t Hg with larger quantities of lower grade available 1968 (NM 25/09/69)	"Not enough data for proven". Activity ceased due to fall in price of Hg. (L K Requa 19/07/71 in VSE SMF 18/04/72, Silverquick Dev C (B.C.) L).

B.C.-147 EMPIRE MERCURY Sovereign Mtls Corp (in 1976) 92 O/2 51°03'28" 122°46'26"	Disseminated cinnabar in calcite veins in two shear zones in green Palaeozoic volcanics.	1931: adit. 1936-39: about 2,400' of u/g work in 9 adits. Ten-ton rotary furnace put in operation in 1938, closed 1939. 1940-41: minor prod and u/g work. 1965-66: percussion drilling in 44 holes. 1969: u/g dd in main zone.	prob: 700,000 at 1.1 lb/t Hg and poss: 700,000 (same grade) to 250' 1967 (CMJ Nov 1969, p 11)		
B.C.-148 POISON MOUNTAIN Lac Mnrls L 92 O/2 51°08'00" 122°36'50"	Zoned intrusives with a core of hornblende-qtz monzonite porphyry and gradational border phases in part comprising biotite-qtz monzonite. Py, cp, mo and bornite as vein and fracture fillings and disseminations, mainly in and near the perimeter of the intrusive core.	1935, 1941: trenching. 1956: stripping, dd. 1959-60: mag and geochem surveys, dd. 1966-71: mag, IP and geochem surveys, 10,068 m dd. 1979-80: dd.	ind: 175,000,000 mt at 0.33% Cu, 0.015% Mo, 0.3 g/t Au (0.25% Cu cutoff) c 1971 (CIM Spec Vol 15, p 323, 1976) or dd ind: 529,000,000 mt at 0.24% Cu, 0.007% Mo, 0.004 oz/t Au 1981 (TSE List Stat, 2/11/81)	Stripping ratio estimated at 0.7:1.	
B.C.-149 BUZZER Phelps Dodge Corp of Can L (in 1966) 92 O/3 51°06'05" 123°21'00"	Cp and minor mo as disseminations and vug fillings in Cretaceous and/or Tertiary porphyritic granodiorite.	1928-30: trenching. 1965-66: geoph and geochem surveys, trenching, dd.	potential of about 10,000,000 mt at unstated Cu-Mo grade 1976 (BC GF 1976, p 49)	Circular deposit 200 m in diameter, drilled to depth of about 100 m. Surface exposures suggest grades are subeconomic.	
B.C.-150 MOHAWK Aberdeen Mnrls L (in 1975) 92 O/3 51°05'50" 123°23'15"	Cp and py in qtz veins and disseminations in a steep dipping fracture zone in qtz diorite of the Coast Range batholith.	1927-35: trenching, sampling, and 450' adit driven. 1956: trenching. 1969-70: geoph and geochem surveys, dd. 1975: dd on Mohawk and/or adjacent properties.	potential of about 150,000 mt 1976 (BC GF 1976, p 51)	In known zone to depth of 30 m. Grades estimated to be well below surface values of 0.15 oz/t Au and 0.75% Cu.	
B.C.-151 SPOKANE Genoveva Res Inc (in 1975) 92 O/3 51°05'20" 123°26'50"	Py and cp in fractures, veins and shear zones, and as sparse disseminations in an irregular area about 250' x 500' in altered granodiorite of the Coast Range batholith.	1922-27: trenching and sampling. 1956: dd in 3 holes. 1968-70: geoph and geochem surveys, dd. 1975: dd on Spokane and/or adjacent properties.	ind: 3,500,000 at 1.99% Cu, 0.111 oz/t Au, 0.56 oz/t Ag 1975 (GCNL 7/03/83)		
B.C.-152 HI DO (PELLAIRE) Silver Standard ML 92 O/4 51°05'50" 123°36'17"	Qtz veins in granitic rocks of the Coast batholith contain py, cp, gal, sph, asp, tetrahedrite and hessite.	1937-38: trenching, adit driven. 1945-47: 2,955' u/g work in 6 adits, dd in 3 holes. 1973: stripping, resampling. 1980-81: u/g work.	34,000 at 0.67 oz/t Au, 2.0 oz/t Ag (Silver Standard, Semi-Annual Rept, 21/11/80)		

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-153 FISH LAKE Taseko ML 92 O/5 51°27'50" 123°37'20"	Cp and bornite in a stockwork in qtz diorite porphyry.	1961-70: geochem and mag surveys, dd. 1972-74: dd 17,534' in 27 holes. 1978-82: Bethlehem Copper Corp option, geoph and geochem surveys, dd.	inf: 201,000,000 at 0.24% Cu, 0.015 oz/t Au, 0.033 oz/t Ag 1981 (NM 25/11/82)	
B.C.-154 BLACK DOME MOUNTAIN Blackdome Expl L 92 O/8 51°19'40" 122°29'05"	Au bearing qtz veins in Eocene to Pliocene volcanics.	1948: trenching. 1954: trenching, sampling and 783' dd in 6 holes. 1979-82: u/g dev and dd.	455,000 at 0.32 oz/t Au, 2.7 oz/t Ag (NM 24/03/83)	Includes 145,000 in Ridge Zone.
B.C.-155 VIDETTE T McQuillan (in 1973) 92 P/2 51°10'05" 120°54'20"	Au in narrow qtz veins in andesite flows of the Nicola Fm.	1931-40: 3 adits, 3 shallow shafts, prod from 25-40 tpd mill.	12,000 tons containing approx 7,300 ozs Au 1973 (J A Mitchell 09/07/73 in VSE SMF 27/09/73, Glen Copper ML)	Remaining in the old workings which yielded 54,000 tons Au-Ag-Cu ore in 1933-40.
B.C.-156 CHU CHUA Craigmont ML (option) 92 P/8 51°22'10" 120°03'30"	Volcanogenic massive sulphide deposit in volcanics and cherty tuffs of the Mississippian (?) Fennell Fm.	1978-79: geochem and geoph surveys, dd. 1980-81: extensive dd on adjacent claims. 1982: dd on the deposit.	2 to 4 million at 2% Cu, 0.5 g/t Au, 8 g/t Ag, 0.03% Co, 0.5% Zn (FS 248/80 Pacific Cassiar L)	Seaforth ML, Vestor Expls L, Pacific Cassiar L joint venture. c 1.7 million t mineable by open pit.
B.C.-157 WINDPASS, SWEET HOME Kamad Silver CL 92 P/8 51°26'35" 120°05'10"	Erratic Au values in narrow qtz veins in pyroxenite sill in Mississippian or Later volcanics and sediments.	1916-39: several thousand feet of dev in adits and inclined shafts. 1969-72: geoph surveys and dd. 1980: sampling.	ind: 36,000 at .204 oz/t Au ind: 17,800 at .02 oz/t Au (Sookochoff, L 12/04/73 in VSE SMF 20/08/73, Dalton Dev L)	In Windpass dump. In Sweet Home dump.
B.C.-158 EAGLET Eaglet ML 93 A/10 52°34'10" 120°59'10"	Fluorite as disseminations, veinlets and veins up to 6" thick, and irregular masses in qtz-felds augen gneiss. Two zones about 300 m apart: West main zone; East 445 x 176 m.	1946: discovery. 1966: tr, percussion drilling, bulk sampling. 1971-75: tr, bulk sampling, dd. 1980-82: 2 adits, No 1, 976'; No 2, 280'; dd to date 50,762' in 100 holes.	dd-ind: 20,700,000 mt at 11.59% fluorspar 1982 (GCNL 25/10/82)	
B.C.-159 CARIBOO BELL Highland-Crow Res L 93 A/12 52°33'13" 121°38'42"	Mag and cp in stockwork of irregular veinlets in monzonite porphyry breccia and fine grained syenite matrix. Mineralization in 6 zones.	1965-67: geochem and mag surveys, dd 48,301' in 32 holes. 1970: mag, IP and geochem surveys, dd. 1972-73: geochem surveys, dd. 1977: dd. 1979-80: dd and metallurgical testing. 1981-82: dd.	c 77,000,000 at est 0.41% Cu, .009 oz/t Au 1981 (Highland-Crow Res L, 1981 AR) or 81,000,000 at 0.487% Cu equivalent 1982 (NM 14/10/82)	A substantial portion of the Cu occurs as oxides. Metallurgical tests indicate the oxide copper is not recoverable using conventional flotation reagents.

B.C.-160 DOME EXPL (PR) Dome Expl (Can) L 93 A/12 52°40' 121°42'	Nicola Group sediments and volcanics intruded by an alkalic stock.	1978-81: geoph and geochem surveys, dd. 1982-83: dd.	dd ind: 950,000 at 0.21 oz/t Au (Campbell Red Lake ML, 1981 AR)	
B.C.-161 HD (GUNN ZONE) Cuisson Lake ML (in 1972) 93 B/9 52°30'05" 122°13'40"	Cu occurs in a stockwork in qtz diorite.	1967-68: IP and mag surveys, dd. 1970-71: dd 14,936' in 28 holes.	ind: 950,000 at 0.280% Cu in two zones 1971 (E P Sheppard 10/03/71 in VSE SMF 17/01/72, Gunn ML	
B.C.-162 SMITH-NASH Silver Standard ML (in 1975) 93 E/5 53°29' 127°49'	Qtz vein containing py and Au in a shear zone in granite gneiss. Vein varies in width from 4-15'.	1952-53: dev work and sampling. 1960: Silver Standard ML option - limited surface work.	117,000 at 0.92 oz/t Au over a 7.2' vein width c 1970 (NM 13/07/72)	
B.C.-163 CAFB Phelps Dodge Corp of Can L (in 1970) 93 E/6 53°17'50" 127°00'20"	Mo and py in a stockwork of qtz veinlets within the peripheral ring of a qtz monzonite porphyry intrusive into hornfels.	1962-68: mag and IP surveys, 57,865' dd in 75 holes. 1977: Craigmont ML, dd. 1979-80: dd. 1981: feasibility study. 1982: Craigmont dropped option.	ind: about 37,000,000 at 0.18% MoS_2, at 0.10% cut-off, available by o/p plus 33,000,000 at 0.16% MoS_2 available u/g 1980 (Craigmont ML, 1980 AR)	Access would be through a Provincial Park.
B.C.-164 HARRISON 93 E/6 53°21'45" 127°17'20"	Au and Ag values in qtz veins at contact of Coast Intrusions with Hazelton Group sediments and volcanics.	1944-46: trenching, dd. 1952-55: adit driven and dd. 1967: trenching, sampling.	ind: 165,000 at 0.27 oz/t Au, 7.32 oz/t Ag and 88,000 at 0.407 oz/t Au, 12.25 oz/t Ag c 1955 (NM 18/08/66)	In Main vein. In Contact Zone vein. Located in Tweedsmuir Provincial Park.
B.C.-165 HARRISON SCHEELITE 93 E/6 53°21'45" 127°17'45"	Scheelite in stockwork of qtz stringers in Hazelton volcanic and as disseminations in Coast diorite in Contact Zone.	1952: trenching, sampling of scheelite-bearing talus. 1967: trenching, sampling.	21,100 T/VF at 0.35% WO_3 1954 (P E Young 12/03/54 in Prospectus 21/04/54 Deer Horn ML)	Loose material in talus slide. In Tweedsmuir Provincial Park.
B.C.-166 EMERALD-GLACIER Emerald Glacier ML (in 1973) 93 E/11 53°44' 127°15'30"	Gal, sph, cp and py in gangue of qtz and altered host rock in a shear zone cutting Jurassic volcanics.	1917-19: adit driven. 1928-31: u/g work in two new adits, dd. 1951-52: u/g dev, dd, ore shipped. 1966-68: 75 tpd mill operated intermittently, 4th adit driven. 1971-73: surface and u/g expl.	6,350.5 mt at 6.38 oz/t Ag, 6.23% Pb, 9.49% Zn 1968 (BC, RD, 1977)	
B.C.-167 OX LAKE Silver Standard ML 93 E/11 53°40'30" 127°03'20"	Cp and Mo in a vein stockwork in the margin and hornfels contact zone of a Late Cretaceous granodiorite porphyry intrusive.	1968-69: geoph and geochem surveys, 15,837' dd in 35 holes. 1977: geoph survey. 1981: dd.	23,600,000 at 0.35% Cu equivalent, which consists of 15,400,000 of 0.43% Cu equivalent and 8,200,000 of 0.19% Cu equivalent 1970 (CIM Spec Vol 15, p 289, 1976)	O/p.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-168 HUCKLEBERRY Kennco Expls (Western) L 93 E/11 53°40'50" 127°10'20"	Cp and minor Mo in fractures in hornfelsed Hazelton volcanic rocks adjacent to a granodiorite stock.	1963-73: mag, IP and geochem soil and silt surveys, dd, preliminary feasibility study.	Mineable reserves: 77,700,000 mt at 0.401% Cu, 0.025% MoS_2 or geologic reserve: 87,000,000 mt at 0.408% Cu, 0.025% MoS_2 to 220 m (0.30% Cu cutoff) 1973 (CIM, Spec Vol 15, p 284, 1976)	Waste-ore ratio of 1.17:1 based on a cutoff grade of 0.25% Cu.
B.C.-169 WHIT Kennco Expls (Western) L 93 E/11, 14 53°45' 127°13'	Py, cp, mo dis in a qtz monzonite stock.	1964-65, 72: geoph, dd, geochem.	900,000,000 at unstated % Cu (0.20% cutoff) 1976 (BCI 93 E-50)	
B.C.-170 NANIKA (DW) 93 E/13 53°46' 127°42'	Cp, py and bornite in Jurassic dacite porphyry at fault contact with granitic rocks of Coast Plutonic Complex.	1968: geochem survey, dd. 1972-74: IP survey, dd.	inf: 18,144,000 at 0.437% Cu 1973 (BC RD, 1977)	
B.C.-171 BERG Kennco Expls (Western) L 93 E/14 53°48'10" 127°25'50"	Cp, molybdenite, py, minor sph, gal, and asp occurring mainly as a fine-textured stockwork of qtz-filled veinlets distributed as a broad annulus co-axial with a semi-circular plug of qtz-monzonite porphyry and its peripheral hornfels and diorite. Extensive oxidation, leaching and secondary enrichment.	1962-67: geochem and mag surveys, trenching, 27,088' dd in 43 holes. 1972-74: Canex Placer L option - dd and metallurgical testing.	Geol reserves in the order of 400,000,000 mt at 0.4% Cu, 0.05% MoS_2 (0.25% Cu cutoff) 1974 (CIM Spec Vol 15, p 274, 1976)	
B.C.-172 CAPOOSE LAKE Gränges Expl AB 93 F/6 53°17'00" 125°09'30	Ag and Au values occur with gal, py, po, cp, asp and sph as dis, replacement of garnet, and fracture fillings in Jurassic volcanics of the Hazelton Group, in structurally controlled zones.	1976-81: geoph and geochem surveys, dd.	several million tons at 1.08 oz/t Ag, 0.01 oz/t Au (Bethlehem Copper Corp, 1980 AR) or 28,300,000 mt at 36 g/mt Ag (Gränges AB 1981, AR p 29)	
B.C.-173 AURUM (ISLAND MTN) Wharf Res L 93 H/4 53°05'57" 121°34'45"	Cambrian or Later phyllite, argillite, qtzite and minor limestone cut by two major faults. Py and Au occur in diagonal qtz veins mainly in micaceous qtzite and in replacement zones in limestone and argillite.	1870s-97: about 1,000' u/g work, small milling operations. 1933-54: Island Mtn MCL, more than 20 mi u/g work on 11 levels from shaft. Mill operated from Nov 1934. 1954-67: sold to Cariboo Gold Qtz Mng CL and ore hauled some 700 yds to Cariboo mill. Closed March 1967.	Combined Cariboo and Aurum Ms - 138,000 at 0.33 oz/t Au (of which 117,000 in Cariboo mine) 1973 (NM 16/08/73)	Produced more than 500,000 oz Au and 80,000 oz Ag from more than 1 million tons ore in 1934-67. Open pit material in Sanders zone.

B.C.-174 CARIBOO Wharf Res L 93 H/4 53°05'20" 121°33'35"	Cambrian or Later phyllite, argillite, qtzite and minor limestone cut by several faults and accompanying vein zones. Py and Au occur in diagonal and transverse qtz filled fractures within the vein zones. Py also occurs as replacements in the limestone.	1880s: adits, shafts and small qtz mill operations. 1927-69: Cariboo Gold Qtz Mng CL - extensive u/g work totalling more than 25 mi; mill operated. 1981: dd.	117,010 no grade stated. Combined Cariboo and Aurum resources are 138,000 at 0.33 oz/t Au 1973 (NM 16/08/73) c 1,000,000 at 0.1 oz/t Au 1981 (Coseka Res L, 1981 AR)	Produced more than 600,000 oz Au and 50,000 oz Ag from more than 1.5 million tons ore in 1933-58. Open pit material in Sanders zone.
B.C.-175 PINCHI LAKE Cominco L 93 K/9 54°37'55" 124°26'00"	Cinnabar in brecciated dolomitized limestone and qtz-carb mica schists in Pinchi fault zone.	1938-44: dd, u/g dev. Mill operated 1940-44. 1965: geochem survey. 1967-75: new main haulage decline driven 1,318', o/p developed; new 800 tpd concentrator operated Aug 68 to July 75.	Meas and ind: 1,200,000 at 6.4 lbs Hg/t 1975 (Cominco L, 1982 AR)	Equivalent to 98,000 flasks at 76 lbs Hg/flask.
B.C.-176 SILVER QUEEN New Nadina Expls L 93 L/2 54°05'15" 126°43'35"	Altered fragmental volcanics intruded by porphyritic diorite, all cut by later dykes and sills of felsite. Veins contain sph, gal and cp in a gangue of qtz, rhodochrosite, chalcedony and barite.	1928-30: u/g dev in crosscut adit and drifts. 1967: IP and geochem surveys, dd. 1968-70: u/g work on two levels, dd. 1971-74: u/g dev, dd, 500 tpd mill operated Feb 72-Sept 73, treating 210,000 tons. 1977: dd. 1981: u/g dev, dd.	meas geol 363,000 mt at 10 oz/t Ag, 0.1 oz/t Au, 0.76% Cu, 2.1% Pb, 6.0% Zn (BC MD)	
B.C.-177 LUCKY SHIP AMAX Inc 93 L/3 54°01'28" 127°28'40"	Mo in a stockwork of fractures and qtz veins concentrated mainly at the contact of two phases of a qtz porphyry plug.	1963-68: geochem, mag and IP surveys, 39,973' dd.	19,600,000 at 0.14% MoS_2 to 400' c 1966 (VSE SMF 22/04/74, Wharf Res L)	Mineable by o/p.
B.C.-178 RICHFIELD Cobre Expl L 93 L/9 54°35'27" 126°15'30"	Qtz sulphide veins and vein-like replacement deposits, in a sheared and intensely altered zone in Jurassic volcanics, contain py, cp, gal, sph, asp, and tetrahedrite.	1926-29: about 5,000' u/g dev in shaft and drifts on two levels. 1934: shallow shaft and drifting. 1951-52: trenching, sampling. 1955-58: drilling, sampling. 1967: geoph surveys, drilling. 1975: geoph and geochem surveys, drilling. 1979: geoph and geochem surveys, trenching. 1980: dd.	dd ind: 170,000 at 0.124 oz/t Au, 5.6 oz/t Ag 1980 (NM 12/02/81)	
B.C.-179 COPPER CROWN Ramm Venture Corp 93 L/10 54°33'30" 126°43'42"	Hazelton volcanics cut by dykes of various compositions. Qtz, py, cp and sph in veinlets, subparallel lenses and joint fillings alternating with screens of country rock over a maximum width of 50'.	1914-20: u/g work in shaft and several adits. 1926-27: u/g work; total to date about 3,800'. 1951-52: dd. 1964-65: IP and EM surveys. 1977: geochem survey.	Ruby Zone: 232,900 ind at 0.73 oz/t Ag, 0.31% Cu, 4.25% Zn 1952 (NM 04/11/65)	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-180 SERB CREEK T L Sadlier Brown & Exeton Res L (in 1975) 93 L/12 54°38'45" 127°45'15"	Low-grade mo widely distributed in fractures and qtz vein stockwork in qtz monzonite core of a granodiorite stock.	1964-66: mag, IP and geochem surveys, 21,500' dd in 19 holes. 1975: dd 1,000 m in 3 holes.	prob: 50,000,000 at 0.08% MoS_2 c 1966 (BCI 93 L-83)	
B.C.-181 GLACIER GULCH AMAX Inc 93 L/14 54°48'50" 127°18'00"	Mo in stockwork and qtz vein swarms in granodiorite sheet and adjacent volcanic rocks and in rhyolite porphyry plug. Minor disseminated Mo in qtz monzonite stock beneath the rhyolite plug. Scheelite present.	1958-65: surface dd in 41 holes. 1966-68: adit to 6,200', 3,000' crosscuts, u/g dd in 33 holes. 1970-73: u/g work, dd, bulk sampling. 1977-79: dd.	approx 100,000,000 at 0.29% MoS_2 c 1968 (BCI 93 L-110)	Tungsten a possible byproduct.
B.C.-182 MAMIE Silver Standard ML 93 L/14 54°46'55" 127°21'	Sph, asp and cp in a shear zone in Jurassic volcanics.	1911-17: trenching, minor u/g work. 1919-24: several adits driven. 1950-51: u/g work. 1963: EM survey, dd.	ind: 61,000 at 0.32 oz/t Au, 3.0 oz/t Ag, 7.6% Zn, 0.7% Cu c 1951 (Sil-Van ML, 1964 AR)	
B.C.-183 SEYMOUR Buval Executive Mng Ind L (in 1970) 93 L/14 54°45' 127°10'30"	Bornite and cp in small veinlets in a fault zone in Jurassic volcanics.	1925-26: trenching. 1963: geoph and geochem surveys. 1966-69: geoph and geochem surveys, dd.	approx 80,000 at unstated Cu-Ag grade 1969 (NM 26/02/70)	"probable ore grade material".
B.C.-184 SILVER LAKE Silver Standard ML 93 L/14 54°49'47" 127°21'30"	Cp, bornite, gal, sph in numerous small shear zones and veins in volcanics.	1905-24: trenching, pitting, sorted ore shipped. 1926-28: short adit. 1929-34: new adit driven. 1964-66: trenching, dd, sampling, 2 prospect shafts totalling 91' and a sublevel driven 97'.	100 T/VF at 0.05 oz/t Au, 13.1 oz/t Ag, 6.7% Pb, 17.7% Zn in 2 shoots on No 3 vein 1964 (Sil-Van ML, Rept & Balance Sheet 30/11/64)	Based on trench sampling over mng widths for 300' aggregate length in the two shoots.
B.C.-185 VICTORY F D Simpson (in 1977) 93 L/14 54°47'10" 127°21'25"	Gal, sph, asp, tetrahedrite as replacements and fissure fillings along shear zones in volcanics.	1906-25: u/g work in 4 adits. 1927-30: u/g work. 1952: drifting and raising. 1977: trenching.	Proven: 4,600, grade unstated 1953 (Sil-Van Cons Mng & Milling CL, AR 31/01/53) or shoot 60' x 3.7' at 0.44 oz/t Au, 10.45 oz/t Ag, 7.10% Pb, 5.49% Zn (BC Bull 1, 1932, p 53)	
B.C.-186 BIG ONION Cdn Superior Expl L 93 L/15 54°48'35" 126°53'40"	Cp, mo, bornite in qtz diorite along sheared contact with andesite.	Pre-1924: 2 adits. 1963-67: geochem and geoph surveys, dd. 1970: IP, mag, EM, resistivity and geochem surveys. 1974-77: mag and geochem surveys, dd.	18,000,000 mt at 0.36% Cu 1976 (CIM Spec Vol 15, Table 1, showing No 73, 1976)	

B.C.-187 CRONIN Hallmark Res L 93 L/15 54°55'30" 126°48'50"	Sph, gal, py and tetrahedrite in veins in a stock-like body of rhyolite and at its contact with surrounding argillites.	1906-10: about 400' u/g work. 1914-23: dev in 5 adit levels. 1928-31: u/g work. 1948: dd. 1951-52: 40 tpd mill operated part time. 1956-57: mill operated part time. 1962-72: intermittent small scale activity by a number of operators. 1972-75: geochem survey, u/g dev, dd, milling for 3 months in 1974. 1977-78: u/g work. 1981: mill placed in storage.	ind: 46,752 at about .01 oz/t Au, 12.5 oz/t Ag, 7.11% Pb, 8.12% Zn, 0.1% Cd plus inf: 130,000 at same grade 1972 (VSE SMF 06/05/74, Hallmark Res L) ind: 20,000+ at 12.5 oz/t Ag, 7% Pb, 8% Zn 1977 (NM 29/12/77)	Subject to dilution of up to 20%. Treated 2,000 tons of Pb-Zn-Ag-Cu ore since 1972. Outlined by u/g work on No 1 level in 1977. May be a portion of former inferred tonnage.
B.C.-188 DOROTHY Ducanex Res L (in 1974) 93 M/1 55°14'40" 126°10'10"	Cp and minor mo disseminated and in stringers in a qtz diorite to granodiorite porphyry plug at the contact between a dioritic stock and Jurassic volcanics and sediments.	1965-66: geoph and geochem surveys. 1970-71: IP, mag, EM and geochem surveys, dd. 1974: geochem survey.	inf: 45,000,000 at 0.25% Cu, 0.01% Mo to 160 m 1971 (CIM, Spec Vol 15, Table 1, No 93, 1976)	
B.C.-189 MORRISON Noranda ML 93 M/1 55°11'25" 126°19'00"	A plug of biotite-hornblende-plagioclase porphyry intrudes Jurassic sediments and is displaced by a fault. Cp and py in a stockwork of veinlets and fractures and disseminated in the porphyry and peripheral sediments.	1962-73: geochem and geoph surveys, trenching, dd.	Geological reserves: approx 86,000,000 mt at 0.42% Cu (0.3% Cu cutoff) 1973 (CIM Spec Vol 15, p 264, 1976)	
B.C.-190 TETRA Silver Standard ML 93 M/3 55°01'55" 127°15'50"	Sph, gal, py, tetrahedrite and asp in a braided shear-like vein in sedimentary rocks of volcanic derivation.	1968-69: geochem survey, dd and 2 adits driven. 1980: 50 tpd mill installed. 1981: test milling.	prov: more than 30,000 at 25 oz/t Ag (NM 4/06/81)	Ag plus Pb-Zn.
B.C.-191 RED ROSE Farwest Tungsten Copper ML (in 1955) 93 M/4 55°08'20" 127°36'00"	Qtz vein in small shear cutting diorite dyke and hornfels near contact with granodiorite of Cretaceous Rocher Deboule stock. Sections of qtz vein within the mine diorite contain scheelite, ferberite, cp, mo and uraninite.	1940-54: dd, mng on 12 levels and sublevels.	prob: 15,000 tons of average grade 1960 (BC Bull 43, p 59, 1960)	Above the 1100 level. Grades estimated at 1.5% WO_3, 0.3% Cu.
B.C.-192 ROCHER DEBOULE Arbor Res Inc (in 1979) 93 M/4 55°09'35" 127°38'20"	Cp, mag, po, py, scheelite, cobaltite, asp, mo, and tetrahedrite in hornblende and qtz veins in porphyritic granodiorite of the Cretaceous Rocher Deboule stock.	1911-18: more than 2 mi of crosscuts and drifts on 5 levels from 3 crosscut adits. 1950-52: mng on No 2 level. Mill operated in 1952. 1979: u/g work.	11,050, no grade stated 1951 (BC RMM 1952, p 91)	In No 2 vein on 1200 level W drift. A small part of the 12,814 tons mined in 1952 came from this area. The property produced 4,500 ozs Au, 84,500 ozs Ag and 3,000 tons Cu from 52,000 tons treated between 1915 and 1952.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-193 THOMLINSON MTN Amax of Can L 93 M/11 55°35'20" 127°29'15"	Mo, cp and py in a stockwork of qtz veinlets at the NW contact of a porphyritic granite stock with Jurassic argillaceous sediments. The mineralization is mainly in the porphyry.	1964-65: geochem survey and dd. 1975: geol mapping.	Meas, ind and inf: 40,820,000 mt at 0.12% MoS_2 c 1965 (CIM Spec Vol 15, Table 3, p 422, 1976)	
B.C.-194 WIT, WAG Titan Res L 93 N/1 55°12'54" 124°27'00"	Pb-Zn in volcanics adjacent to qtz-carb replacement zone.	1964-65: trenching, geoph and geochem surveys, dd. 1967-69: mag, gravity, EM, IP and geochem surveys, dd. 1981: geochem survey.	20,000 at 7.5% Pb-Zn 1965 (JBP Sawyer 26/01/79 in Prospectus 05/05/81, Marilyn GM Inc)	
B.C.-195 LONNIE Moly Mite Res Inc 93 N/9 55°41' 124°22'	Columbite, ilmenite, ilmenorutile, zircon in syenite.	c 1954: discovery. 1954-55, 70: tr, str, sampling. 1979-81: dd.	ind poss: 300,000 at 0.204% Nb_2O_5, 0.448% $ZrSiO_4$ (GCNL No 131, July 9, 1982)	
B.C.-196 KWANIKA Suneva Res L (in 1974) 93 N/11 55°30'30" 125°20'00"	Py, cp, mo in fracture zones in Lower Cretaceous granitic intrusives cutting Takla Group volcanics and Lower Jurassic monzonite along border of Pinchi fault zone.	1965-67: trenching, dd, geochem and geoph surveys. 1969-70: IP survey, dd. 1972-74: IP and mag surveys, dd.	36,000,000 at 0.2% Cu 1974 (CIM Spec Vol 15, Table 1, No 97, 1976)	
B.C.-197 LUSTDUST Anchor-Takla ML (in 1968) 93 N/11 55°34' 125°24'45"	Sph, ruby silver, stibnite boulangerite in a vein-like replacement zone along a shear and as a replacement in limestone at a contact with schistose pyroclastic rocks.	1945: adit to 350'. 1953-54: trenching, dd. 1964-65: new adit to 750', dd. 1968: dd. 1969: metallurgical testing. 1978: Granby Mng geoph and geochem surveys on adjacent ground.	(i) No 1 Zone: 22,000, grade unstated 1966 (FR 11/07/66) (ii) No 3 Zone: 257,000 ind at 0.07 oz/t Au, 1.84 oz/t Ag, 1.5% Zn before dilution 1968 (iii) No 4 Zone: 81,700 ind at 0.095 oz/t Au, 0.81 oz/t Ag, 6.6% Zn 1968 (NM 12/02/70)	No 1 Zone on surface averages 0.13 oz/t Au, 23.4 oz/t Ag over 7' width, 225' length.
B.C.-198 MISTY El Paso Mng & Milling C (in 1973) 93 N/13 55°55'20" 125°31'30"	Cp, bornite and minor py as fracture coatings and disseminations in fault zone in gneissic phase of altered syenite of Duckling Creek complex. The syenite is an elongate body within Hogem batholith.	1961-63: geoph and geochem surveys, trenching. 1970-73: mag and geochem soil surveys, dd.	poss: 3,000,000 mt at 0.6% Cu 1973 (CIM Spec Vol 15, Table 1, No 95, 1976)	

B.C.-199 LORRAINE Kennco Expls (Western) L 93 N/14 55°55'35" 125°26'15"	Cp and bornite disseminated in syenite migmatite adjacent to a monzonite contact. Some sulphides in fractures and faults.	1948-49: sampling, dd. 1961-63: geochem, mag and IP surveys, dd. 1970-73: geochem and mag surveys, dd.	ind: approx 10,000,000 mt at 0.7% Cu, 0.10-0.34 ppm Au (0.4% Cu cutoff) in two zones 1971 (CIM Spec Vol 15, p 397, 1976)		
B.C.-200 RONDAH Treasure Valley Expls L 93 N/14 55°54'40" 125°17'05"	Py and cp with minor bornite disseminated and in fractures within feldspathized monzonitic rocks of the Omineca Intrusions.	1961-63: geoph and geochem surveys. 1970-72: geoph and geochem surveys, trenching, dd. 1981: staking.	meas geol: 9,072,000 mt at 0.7% Cu 1971 (BC RD, 1977)		
B.C.-201 ROBB LAKE Barrier Reef Res Kidd Creek ML 94 B/13 56°56'30" 123°43'40"	Sph and gal in tabular and lenticular zones in doloastone breccia of the Devonian Stone Fm.	1972-75: geochem and IP surveys, dd. 1980-82: dd.	inf: 6,100,000 at 7.3% Pb-Zn 1974 (NM 30/01/75)	Mainly Zn; estimate based on dd in 3 areas.	
B.C.-202 BEVELEY Suzie Mng Expls L 94 C/3 56°08'50" 125°04'00"	Gal as veinlets and disseminations in barite masses in dolomite and as stockwork veinlets and fracture fillings in brecciated dolomite. Four main areas of mineralization.	1947-51: trenching, dd. 1966-69: trenching, IP survey, dd, adit to 900'. 1977-79: EM, IP and gravity surveys, dd.	(i) about 3,000,000 at approx 3.66% Pb-Zn, 1.06 oz/t Ag c 1969 (NM 07/12/78) (ii) 110,000 dd-ind at 1.42% Pb, 2.24% Zn, 1.06 oz/t Ag 1978 (K C Fahrni 11/09/78 in VSE SMF 25/10/78, Suzie Mng Expls L)	In 3 zones. In Bullseye Zone; in addition to the above zones.	
B.C.-203 FERGUSON Dorita Silver ML (option in 1970) 94 C/11 56°41'20" 125°10'	Silicified Lower Cambrian limestone contains py, sph and gal in lens-like replacement zones, 2' to 10' thick.	1927-30: u/g work in 4 adits. 1956-57: geoph and geochem surveys, dd. 1969-70: geochem survey, dd.	25,000 1969 (VSE SMF 28/10/70, Dorita Silver ML)	At 3.5 oz/t Ag, 9.8% Pb, 6.1% Zn (Dorita Silver ML, Rept and Balance Sheet 30/11/69)	
B.C.-204 SUSTUT Falconbridge L 94 D/10 56°36' 126°41'30"	Reasonably conformable, disseminated, zoned, py, cp, bornite, chalcocite and native Cu mineralization in intermediate fragmental volcanics. Deposit is essentially stratigraphically controlled.	1971-74: prospecting, dd in 139 holes.	ind: 60,000,000 at just under 1.25% Cu 1972 (NM 12/04/73)	Based on dd in 1972.	
B.C.-205 LAWYERS SEREM L 94 E/6 57°19'40" 127°11'	Acanthite, electrum, native silver with minor py, cp, gal in amethyst-qtz breccia zone. Host rocks are Jurassic tuff and trachyte. Au zone 200 x 20 metres.	1970-75: geochem, mag, dd. 1979-81: dd, u/g work; 730 m adit, drifting, x-cutting.	AGB Zone: 200 x 20 m	Some assays greater than 20 ozs Au/ton and 200 ozs Ag/ton. Potential reserves 10 tonnes Au, 200 tonnes Ag (Bureau de Recherches Géologiques et Minières, 1981 AR, p 25).	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-206 CIRQUE Cyprus Anvil Mng Corp and Hudson's Bay Oil & Gas CL 94 F/11 57°31' 125°09'	Stratiform massive barite with py, gal and sph in shale and argillite of Gunsteel Fm.	1978-80: geochem survey and dd. 1981-82: access road completed; dd.	dd-ind: 33,000,000 at 2.2% Pb, 7.8% Zn, 1.5 oz/t Ag 1980 geol reserve: 7,000,000 (Hudson's Bay Oil & Gas 1980 AR)	
B.C.-207 DRIFTPILE CREEK Placer Dev L 94 K/4 58°04'30" 125°54'00"	Stratiform Pb, Zn, Py, and Ba occur in siliceous shales of the Devonian Gunsteel Fm.	1970-75: geochem and geoph surveys, trenching. 1978-80: dd. 1982: dd.	ind approx 20,000,000 at 2.38% combined lead-zinc 1979 (CMH 1980-81, p 280)	Gataga Joint Venture. Welcome North ML - operator.
B.C.-208 TORO (CHURCHILL) J E Irwin (in 1977) 94 K/6 58°22'30" 125°12'00"	Cp as lenses and stringers in qtz-carbonate veins, in part adjacent to diabase dykes, cutting dolomite and slate of the Aida Fm. The best vein has average width of 8', though locally may be 30' wide.	1966: trenching, 692' dd in 5 holes.	prob: 200,000 at 8% Cu 1966 (NM 21/07/66)	Much lower grade indicated by surface samples (avg 2.95% Cu across 8') and drill assays (4 intersections some 80' below surface avg 0.66% Cu across 13.5').
B.C.-209 DAVIS KEAYS Davis-Keays Mng L 94 K/11 58°33'15" 125°26'40"	Cp in qtz-carb vein swarm in folded belt of Precambrian strata of the Aida Fm. Diabase dyke swarms are prevalent throughout the area.	1968-69: u/g work in 3 adits, dd. 1970: drifting, raises, dd, feasibility study. 1971-72: drifting, dd.	semi-proven: 1,233,700 at 3.43% Cu, prob: 142,000 at 2.92% Cu and poss: 750,000, grade undetermined 1971 (Chapman, Wood and Griswold, June 71 in VSE SMF 04/07/72, Davis Keays Mng CL)	
B.C.-210 MAGNUM Teck Corp (in 1979) 94 K/11 58°30'35" 125°24'10"	Magnum vein system contains ankerite, qtz, cp, py and partly replaced remnants of Precambrian sedimentary-host rock.	1958-59: trenching, dd. 1967-71: about 14,000' u/g work in several adits, dd. A 750 tpd mill operated 1970-71. 1973-75: u/g dev, milling at 500 tpd Jan 74-Apr 75.	about 100,000 at 3% Cu at time of closure Apr 1975 (NM 08/05/75)	Produced 15,500 tons Cu from 598,000 tons ore milled in 1970-75.
B.C.-211 TOAD RIVER Churchill Copper Corp L (in 1971) 94 K/12 58°32'30" 125°43'20"	Cp and qtz in a shear at both contacts of a diabase dyke cutting slate and argillite of the Aida Fm.	1957: trenching. 1958-59: trenching, dd.	ind: 100,000 at 4.5% Cu to 200' 1959 (A D Wilmot 20/09/61 in Fort Reliance Mnrls L, Prospectus, 28/09/61)	
B.C.-212 TAM Liard Fluorspar ML 94 M/9 59°32' 126°05'	Fluorite in limestone and argillite breccias of the Mid-Devonian Dunedin and Besa River Fms.	1971: trenching, dd, bulk sampling.	geol res: c 2,600,000 at 30% CaF_2 (Conwest Expl CL, 1981 AR)	Based on 14 ddhs in a number of relatively small deposits over a large area.
B.C.-213 COPPER QUEEN P McMillan (in 1968) 103 B/6 52°16'44" 131°13'17"	Mag and cp at contact of Triassic Karmutsen volcanics with qtz diorite Jedway stock and in bedded horizon of lenses some 50' above the contact.	1906-09: about 450' u/g work in 4 adits. 1954, 56: dd.	pot: 10-20,000 c 1960 (BCI 103 B-C - 54)	

B.C.-214 HOPE Granby Mng CL (in 1960's) 103 B/6 52°15'48" 131°11'25"	Mag and cp in a dyke-like skarn deposit near contact of Triassic Karmutsen volcanics with qtz monzonite of the Carpenter pluton.	1910-29: trenching and short adit. 1960: 60' dd in 1 hole.	about 25,000 at 1.5-2.0% Cu, some Au, Ag 1964 (BC Bull 54, p 203, 1968)	Assay of 2.7% Cu across 10' (BC RMM 1926, p 67). The 1960 drill hole cut 5' of 0.85% Cu.
B.C.-215 LILY Falconbridge Nickel ML (in 1973) 103 B/6 52°17'23" 131°10'53"	Cp and mag in 3 vein-like replacement deposits in bedded shear zones in greenstone and in a skarn lens at contact of Triassic Kunga and Karmutsen Fms.	1898-1920: u/g work in 4 adits. dd, intermittent prod from 1906. 1958: geoph survey. 1964: dd.	about 300,000 Cu, grade unstated c 1926 (GSC EG, Vol 1, p 30, 1926)	Prod 1906-20: 1,600 ozs Au, 27,000 ozs Ag, 130 tons Cu from 15,000 tons ore.
B.C.-216 STAR Westfrob ML (in 1960s) 103 B/12 52°41'50" 131°53'15"	Cp-bearing magnetite skarn zone at base of small roof pendant in San Christoval Batholith.	1907-26: u/g work total 400' in 2 adits. 1963: dd in 3 holes.	ind: more than 50,000,000 at 0.06 oz/t Au, 0.1 oz/t Ag 1975 (CIM Bull, Sept 76, p 64)	Drilling indicated somewhat less tonnage with approx grade of 50% Fe, 1% Cu. (BC Bull 54, p 192, 1968)
B.C.-217 BABE Cons Cinola ML 103 F/9 53°32' 132°13'	Au in brecciated zone in qtz feldspar porphyry and adjacent silicified areas in Skonun Fm, between two major faults.	1971: geochem survey and dd. 1972: geochem survey, trenching and dd. 1974-75, 77-79: dd. 1980-82: u/g expl and feasibility study.	41,000,000 mt at 0.067 oz/t Au 1982 (GCNL 30/04/82)	Metallurgical tests indicate about 75% recovery.
B.C.-218 BANKS Host Ventures L 103 G/8 53°21'50" 130°07'30"	Au in a lens of marble, skarn and other metamorphosed sedimentary remnants between two faults in an area of granitic Coast intrusives. Au values associated with asp.	1963-64: geochem and SP surveys, trenching, dd. 1973-75: mag, EM and geochem surveys, trenching, dd. 1977-78: decline driven 1,425', dd.	Bob Zone: 144' x 5.5' at 0.92 oz/t Au, 2.38 oz/t Ag 1978 (NM 10/08/78)	Shoot exposed in drift at a depth of about 135' below surface.
B.C.-219 SURF INLET Matachewan Cons ML 103 H/2 53°05' 128°52'50"	Au in two qtz veins in shear zone in a chlorite schist inclusion in Coast batholith. The veins join at a depth of about 550'.	1910-26: intermittent dev. A 300 tpd mill operated 1917-26. 1933-42: milling at 70 tpd. 1946: milling, u/g dev. 1981: dd.	Pugsley Zone: 47,250 prob and poss at 0.35-0.45 oz/t Au 1961 (NM 24/01/74)	Prod 1902-43: 380,000 ozs Au, 200,000 ozs Ag, 3,000 tons Cu from 1,000,000 tons ore.
B.C.-220 ECSTALL Texasgulf Inc 103 H/13 53°52'25" 129°30'40"	Py, sph, cp and gal as massive replacements of certain favourable beds in Palaeozoic schist, qtzite and granitoid gneiss remnant within the Coast intrusives.	1901-03: adit to 107', dd, bulk sampling. 1917-20: dd. 1923: dd, metallurgical studies. 1937-40: geoph survey, dd, new adit to 2,780' with about 1,400' of drifts and raises. 1952: EM survey and u/g dd. 1966: bulk sampling and metallurgical testing. 1975: EM survey.	ind: 5,000,000 at 49.35% S, 42.75% Fe, 2.3% Zn, 0.2% Pb, 0.8% Cu, 0.02 oz/t Au, 0.71 oz/t Ag, including 650,000 at 1.91% Cu, 2.30% Zn, 0.03 oz/t Au, 1.0 oz/t Ag 1923 (W B Maxwell 16/04/42, British Columbia Pyrites CL) or at least 8,000,000, no grade stated 1952 (BC Bull 39, p 41, 1957)	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-221 NORTHWEST E P Hudson (in 1973) 103 I/8 54°29'00" 128°00'45"	Jurassic volcanics intruded by dykes, sills and irregular bodies of andesite to microdiorite. At No 1 zone bornite disseminated in a sequence of lapilli tuff and vitrophyre over a strike length of 200' and width of 80' or more.	1914: prospecting. 1962: trenching. 1964-65, 73: geochem survey, dd.	No 1 Zone: 31,000 at 1.7% Cu to 80' 1972 (T Sadlier-Brown Oct 72 in VSE SMF 19/06/73, Spectrosair Explo L)	
B.C.-222 KELLY CREEK Imperial Mtls Corp 103 I/8 54°27'10" 128°08'15"	Cp and bornite in fractures in granodiorite and as blebs and stringers in fractured rhyolite tuff and breccia. Bornite as disseminations in rhyolite dykes.	1965-67: trenching, IP and and geochem surveys, dd. 1968-71: IP and geochem surveys, adit to 1,000', dd. 1980: dd. 1982: dd.	2,500,000 dd ind at 1.03% Cu, 0.54 oz/t Ag plus 2,500,000 inf at same grade (NM 27/11/80) or dd ind: 300,000 at 2.23% Cu, 1.3 oz/t Ag plus 300,000 inf at same grade 1982 (Imperial Mtls Corp, 1982 AR)	In Warren Zone.
B.C.-223 ALVIJA Alvija ML (in 1970) 103 I/9 54°33'48" 128°10'35"	Bornite in fractures and disseminations in shear zone in Jurassic tuffs and breccias intercalated with dacite porphyry.	1908-14: open cuts, inclined shaft, short adit. 1929: 2nd adit driven. 1968-70: geochem survey, trenching, dd.	200,000 at 4% Cu, 2 oz/t Ag 1968 (MM Oct 1968, p 154)	Available data suggests a lower tonnage and grade.
B.C.-224 CROESUS Mintek Res L 103 I/9 54°32'50" 128°25'30"	Qtz and py in narrow vein in fault zone at contact of silicified metavolcanics and qtz diorite of Coast intrusives.	1930s-40s: u/g work in 3 adits. 1969-72: EM and geochem surveys, trenching, dd, bulk sampling. 1979: geochem survey, dd.	ind: 4,800 at 0.76 oz/t Au, 1.73 oz/t Ag across 3' 1971 (W M Sharp 30/08/71 in VSE SMF 13/09/72, Kendal Mng & Expl CL)	In old adits.
B.C.-225 JB Prism Res L 103 I/9 54°43'45" 128°19'50"	Mo in qtz veins, fracture fillings and disseminations in granite dykes cutting granodiorite of Coast Plutonic Complex near contact with Jurassic volcanics.	1959: trenching, sampling. 1964-65: geochem survey, dd. 1979-80: dd.	3,400,000 mt at 0.08% Mo 1965 (CIM Spec Vol 15, Table I, No 105, 1976)	
B.C.-226 SUHF POINT, EDYE PASS Porcher Island GML (in 1978) 103 J/2 54°01'40" 130°35'00"	Narrow qtz veins in qtz diorite of Coast Intrusives contain auriferous pyrite in irregular shoots.	1917-20: trenching and several adits driven. 1929-39: u/g dev and mill operated. 1975, 1977: geoph and geochem surveys, dd. 1978-79: dd and u/g work.	Between 100,000 and 400,000 ozs Au 1979 (NM 29/11/79)	

B.C.-227	SHAG ROCK Naden Harbour Manganese L (in 1965) 103 K/2 54°08'55" 132°39'20"	Manganite and pyrolusite as veinlets in volcanic rocks and cementing volcanic breccia in fault zone.	1965: bulk sampling, dd.	15,000 at 15% Mn c 1965 (BCI 103 F, G - 1)	Visual estimate.
B.C.-228	BONANZA Cominco L 103 P/5 55°23'45" 129°51'15"	Area underlain by a large sedimentary-volcanic remnant in Coast intrusives. Cp, po, sph and py in shear zone in amphibolite.	1901-02: about 800' u/g work in several adits. 1913: dd. 1929-34: shaft to 684', ore shipped to Anyox smelter. 1976: geochem survey.	226,800 mt at 1.0% Cu c 1937 (BC RD, 1977)	
B.C.-229	DOUBLE ED Cominco L 103 P/5 55°24'45" 129°52'35"	Disseminated cp in siliceous pyrite replacements of sheared andesite flows.	1935: geoph surveys, trenching, dd. 1954: EM survey, dd. 1959-60: crosscut adit to 2,874', dd. 1976: geochem rock sample survey.	3,628,800 mt at 1.0% Cu, 0.6% Zn 1960 (BC RD, 1977)	
B.C.-230	EDEN Cominco L 103 P/5 55°25'40" 129°53'30"	Basic volcanics and sedimentary rocks form a large roof pendant in the Coast Plutonic Complex.	1953-54: trenching and dd.	226,800 mt at 2.0% Cu 1954 (BC RD, 1977)	
B.C.-231	HIDDEN CREEK (ANYOX) Cominco L 103 P/5 55°26'33" 129°49'35"	Cp, po and py at or near contact between amphibolite and argillite, in an inclusion of Jurassic volcanic and sedimentary rocks in granitic Coast intrusives.	1914-35: Granby operated mine and smelter. 1937-38: purchased by Cominco, u/g work and dd. 1950-63: geoph surveys, dd. 1976: geochem survey. 1982: dd.	1,806,332 at 1.28% Cu, incl recoverable, 1,124,102 at 1.29% Cu, .0031 oz/t Au, 0.24 oz/t Ag in 1 to 6 orebodies 1935 (Granby 1935 AR) ind: over 20,000,000 at 0.46% Cu (NM 31/05/73)	The low-grade tonnage is adjacent to old No 3 orebody and includes its old reserve tonnage of 156,440 tons at 1.30% Cu. (VSE SMF Apr 1973, Colby ML)
B.C.-232	MAPLE BAY Dolly Varden Mnrls Inc 103 P/5 55°25'50" 129°59'10"	Cp and po as pods, streaks and specks in qtz veins in a wide zone of catalasites, mylonites and chlorite schists at the W edge of a Jurassic volcanic - sedimentary pendant in Coast intrusives.	1903-05: trenching, several short adits. 1916: adit driven. 1923-24: dd by Granby. 1955-56: dd. 1969-70: u/g work in 2 adits.	Eagle vein: 522,000 prob at 1.71% Cu, and 590,000 inf at 1.4% Cu 1931 (J T Mandy 1931 in BC GEM 1970, p 77) or 478,000 ind and inf at 3.05% Cu across 9.5'. (Mandy, 1949 as quoted by F J Hemsworth 20/10/52 in Maple Bay Copper ML Amendment to Prospectus 04/06/53)	The first set of estimates is based on 1923 dd results.
B.C.-233	RED WING Interplex Spa Ind L (in 1973) 103 P/5 55°22'50" 129°53'00"	Py, po, cp and sph disseminated in a chlorite schist shear zone in andesitic pillow lavas near an overlying contact with a silt-stone-greywacke sequence. These rocks form a large inclusion in Coast intrusives.	1911-13: adit to 120', dd. 1954: EM survey. 1963: dd. 1965-67: new adit to 950', dd, geoph and geochem surveys. 1971: airborne mag and EM surveys. 1972: mag and EM surveys, dd.	200,000 at 2% Cu, some Ag, Zn 1966 (NM 06/04/67)	Lenticular zone with probable long vertical axis and potential of 350 T/VF. A rough estimate of grade is 1.84% Cu, 0.86 oz/t Ag. (J W Hogan 17/03/71 in VSE SMF 11/02/72, Bow River Res L)

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-234 MOLY Amax of Can L 103 P/6 55°27'40" 129°19'50"	Mo in qtz vein stockwork in both qtz monzonite porphyry and biotite hornfels in crescentic zone around eastern part of stock.	1966-67: geochem surveys, dd. 1970: geochem survey, trenching on E part of property. 1976: dd.	35,860,000 at 0.11% MoS_2 1967 (Highland-Bell L, 1967 AR) or 106,000,000 at 0.09% MoS_2 (NM 24/04/80)	Includes 21,148,000 at 0.143% MoS_2. Tungsten, detected in drill cores, is of unknown economic significance.
B.C.-235 ROUNDY CREEK Amax of Can L 103 P/6 55°25'35" 129°29'40"	Qtz monzonite porphyry stock intrudes Jurassic argillaceous rocks and is displaced by major fault. East of fault mo in qtz vein stockwork and fracture fillings. West of fault mo in two lens-like high-grade zones, mainly in alaskite.	1960: dd. 1965-66: geochem survey, dd 1967-68: IP and geochem soil surveys, dd on Sunshine Ck. 1969-70: two adits driven on Sunshine Ck zone. 1971: dd.	(i) Roundy Ck zone: 7,000,000 mt ind at 0.11% MoS_2 1971 (ii) Sunshine Ck zone: 1,350,000 mt ind at 0.347% MoS_2 1971 (iii) High-grade zone: 35,000 mt ind at 0.668% MoS_2 1970 (CIM Spec Vol 15, p 467, 1976)	
B.C.-236 AJAX Newmont Expl of Can L 103 P/11 55°35'15" 129°24'10"	Four small closely spaced qtz monzonite porphyry stocks intrude Jurassic argillaceous rocks. Mo occurs in a qtz vein stockwork in the intrusives and in contact zone hornfels.	1926: trenching, 100' adit. 1965-67: airborne mag and geochem surveys, dd.	meas and ind: 178,540,000 mt at 0.121% MoS_2 1967 or 417,300,000 mt at 0.09% MoS_2 1967 (CIM Spec Vol 15, Table 3, p 422, 1976)	Very high stripping ratio.
B.C.-237 DOLLY VARDEN Dolly Varden Mnrls Inc 103 P/12 55°40'55" 129°30'30"	Siliceous replacement zone containing argentite, ruby silver, native silver and py as a faulted vein-like deposit in Jurassic volcanics.	1915-16: u/g work in 6 adits. 1919-21: available ore mined (37,000 tons). 1935-40: intermittent high-grading operations. 1967: airborne and ground mag surveys. 1972: dd. 1978: geochem survey. 1980: u/g work.	proven, prob and poss: 47,443 at 16.0 oz/t Ag c 1971 (Dolly Varden ML, 1971 AR)	Combined reserve for this property and 3 others (North Star, Wolf, Toric) held by Dolly Varden is 1,712,444 tons provsn, prob and poss at 9.52 oz/t Ag, 0.53% Pb, 0.82% Zn. (Dolly Varden ML 1973 AR)
B.C.-238 NORTH STAR Dolly Varden Mnrls Inc 103 P/12 55°41'15" 129°30'20"	Py, gal, sph, tetrahedrite and Ag minerals in qtz-barite vein in a complex zone of numerous veins, lamprophyre dykes and Jurassic agglomerate and tuff.	1916-21: trenching, 2 adits. 1927-29: u/g work. 1956-59: dd, 4th adit driven. 1962-63: u/g work. 1967: airborne and ground EM survey. 1978: geochem survey. 1980: u/g work.	proven, prob and poss: 253,212 at 9.11 oz/t Ag, 1.17% Pb, 3.40% Zn c 1971 (Dolly Varden ML., 1971 and 1973 ARs)	
B.C.-239 TORIC Dolly Varden Mnrls Inc 103 P/12 55°44'10" 129°33'20"	Py, gal, native silver, sph and cp in massive irregular-shaped qtz-barite-jasper replacement zone in folded Jurassic volcanics. Replacement zone locally up to several	1916-23: trenching, 3 adits. 1924-30: u/g dev, intermittent milling in 1927-28, dd. 1946-59: u/g work in new adit and shaft, 300 tpd mill operated 1949-59.	proven, prob and poss: 866,812 at 9.10 oz/t Ag, 0.42% Pb, 0.50% Zn 1971 (Dolly Varden ML, 1971 AR) or 7,146,000 at 3.9 oz/t Ag, including 1,348,000	4,800,000 tons might be available for o/p mng with a 1:1 stripping ratio. Between 1928 and 1959 the mine produced

		hundred feet wide carrying Ag values but commercial grade confined to shoots and lenses from 10 to 80' wide.	1966: u/g work. 1967: airborne and ground mag surveys. 1978: geochem survey. 1980: dd.	at 9.4 oz/t Ag 1966 (Dolly Varden ML 31/03/67 AR)	18,600,000 oz Ag and 5,400 tons Pb from 1,400,000 tons milled.
B.C.-240	VANGUARD Caulfield Res L 103 P/12 55°44'10" 129°33'20"	Altered feldspar porphyry in contact with Hazelton volcanics. Massive py and cp with minor qtz and barite occur as veins and lenses in shear zones in the intrusives. At the "Gold" showing qtz, carbonate, py, cp, gal and sph occur as replacements, without well-defined boundaries, in the intrusives.	1912-16: open cuts and adits. 1926-27: x-cutting and drifting in several adits. 1947, 51: new x-cut adit driven to "Gold" showing. 1966: geol, geoph and geochem surveys. 1968: minor u/g work. 1981: geoph and geochem surveys.	10,000 at 8.6% Cu, 4.1 oz/t Ag, 0.07 oz/t Au 1966 (VSE AL 133/80, Caulfield Res L)	Based on 1966 surveys and general property examination.
B.C.-241	VICTORY Lodestar Energy Inc 103 P/12 55°43'30" 129°30'50"	Gal, sph, tetrahedrite and some native silver in qtz-barite-jasper-pyrite vein-like replacements along fracture zones in volcanics.	1918-21: trenching, dd, adit. 1923-32: intermittent small scale dev. 1963-67: dd. 1975: trenching, dd. 1980-81: geoph and geochem surveys.	ind: 73,000 at 11.47 oz/t Ag in 2 zones 1975 (E M Wilson in VSE SMF 14/07/75, Northern Homestake ML)	Lodestar Energy Inc 1980 option to purchase.
B.C.-242	WOLF Dolly Varden Mnrls Inc 103 P/12 55°42'30" 129°31'00"	Gal, sph, mag, pyrargyrite, tetrahedrite and native silver in three vein-like qtz-barite-jasper-py replacement deposits in fractures and shear zones in Jurassic tuff and agglomerate.	1915-16: adit, dd. 1929: dd. 1960-64: dd, 3 new adits. 1967-70: airborne mag survey; dd and u/g work. 1978: geochem soil survey. 1980: dd.	proven, prob and poss: 534,969 at 9.79 ozs/t Ag, 0.59% Pb, 0.12% Zn c 1971 (Dolly Varden ML, 1971 and 1973 ARs)	
B.C.-243	LUCKY SEVEN Lorcan Res L 103 P/13 55°58'20" 129°54'50"	Py, gal, sph and asp in qtz veins in major fault zone cutting Jurassic argillite.	1905-11: u/g work in 3 adits and shaft; milling part time in 1910-11. 1913-14: long low-level crosscut adit driven. 1954-55: sampling. 1971-73: geochem survey, dd.	dd-ind: 12,300 at 0.065 oz/t Au, 6.09 oz/t Ag, 1.58% Pb, 1.87% Zn across 5.4' 1973 (W G Hainsworth 15/11/73 in VSE SMF 03/12/73, Starbird ML)	
B.C.-244	PROSPERITY, PORTER-IDAHO Pacific Cassiar L 103 P/13 55°54'25" 129°56'00"	Gal, sph, tetrahedrite and native silver in narrow irregular qtz veins in Jurassic Hazelton volcanics.	1926-31: over 20,000' of crosscuts, drifts and raises in 10 or more adits. 1980-81: drifting and dd. 1982: surface mapping and sampling.	(i) 'D' Vein: 400,000 at 16.3 oz/t Ag 1981 (ii) Prosperity Vein: 200,000 at 31.6 oz/t Ag 1981 (NM 1/04/82)	
B.C.-245	GEORGE COPPER Tournigan Mng Expls L 104 A/4 56°06'13" 129°45'20"	Cp and py with values in Au and Ag as fracture controlled replacements in Jurassic volcanics. Cp and py disseminated in argillite-tuff-iron Fm.	1911-19: u/g work in 2 adits. 1927-29: dd. 1976: dd.	Estimates vary between 110,000 (Smitheringale 1926) and 500,000 (McEachem 1956) with a grade of 2% Cu, 0.5 oz/t Ag, 0.06 oz/t Au (G Keyte, Dec 78 in VSE SMF 12/07/79, Tournigan Mng Expls L)	

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-246 BIG MISSOURI Tournigan Mng Expls L 104 B/1 56°06'45" 130°01'20"	Au in qtz-calcite veinlets in schists, cataclasites and mylonites in complex shear zone. Four main mineralized zones identified.	1904-24: open cuts, adits and vertical shaft. 1927-31: u/g work in Province adit, dd, 100 tpd mill operated briefly. 1934-42: two new adits, 750 tpd mill installed u/g and operated 1938-42. 1966: geochem survey. 1974-75: dd, geochem survey. 1976: IP survey, dd. 1978: dd, geochem survey. 1979-82: Westmin Res L option, geoph and geochem surveys, dd.	prob: 1,842,560 at 0.117 oz/t Au 1936 (BC Bull 58, p 126) or dd-ind and inf: 1,900,000 at a Au/Ag equivalent of 0.10 oz/t Au 1982 (NM 12/05/83)	Less prod, 1938-42, of about 845,000 tons. Some 35 other showings on Big Missouri and adjacent properties have ind potential of less than 200,000 at less than 0.10 oz/t Au and 1.0 oz/t Ag. (H D Brown 1966 in BC Bull 58, p 127)
B.C.-247 SILBAK PREMIER British Silbak Premier ML 104 B/1 56°03'40" 130°01'30"	Py, gal, sph and cp in qtz-carbonate vein and replacement deposits concentrated at or near sheared contacts between fragmental volcanics and Premier porphyries along two major intersecting fracture systems.	1917-53: extensive u/g work, mill operated. 1956: mill destroyed by fire. 1959-68: mng in new high-grade vein. Cyanidation mill operated from 1964. 1969-71: geochem, mag and IP surveys, dd. 1980: dd. 1981-82: Westmin Res L, option, u/g work, dd.	(i) Silbak Premier below No 3 level: 75,250 at 0.28 oz/t Au, 2.8 oz/t Ag, 1.8% Pb, 2.7% Zn 1956 (ii) West zone (Premier Border) (Northern Light): 74,146 at 0.07 oz/t Au, 1.98 oz/t Ag, 4.25% Pb, 6.36% Zn 1956 Total, proven and ind: 149,396 at 0.18 oz/t Au, 2.39 oz/t Ag, 3.03% Pb, 4.53% Zn (Silbak Premier ML, 1958 AR)	Prod 1959-68 from new high-grade vein discovery on footwall of old surface workings. Total prod, 1918-68: 1,800,000 oz Au, 40,000,000 oz Ag, 2,000 tons Cu, 30,000 tons Pb, 10,000 tons Zn from 4,700,000 tons ore.
B.C.-248 MACKAY Stikine Silver L, Cone Silver Butte ML 104 B/9 56°37' 130°27'30"	Lower Jurassic volcanics locally contain qtz stockworks with irregular Au- and Ag-bearing sulphides, including cp, tetrahedrite, asp, gal and sph.	1933-37: trenching, dd. 1939-40: adit driven. 1946: adit extended. 1953: trenching, dd. 1963-67: new adit driven to 586', geoph survey, dd. 1970-73: geoph and geochem surveys, trenching, dd. 1975-76: geoph surveys, dd. 1979: geol survey; high-grade bulk sample shipped. 1980: U.S. Borax & Chem Corp option, geochem surveys. 1982: further work.	inf: 907,200 mt at 0.25 oz/t Au 1973 (BC RD, 1977)	
B.C.-249 E & L Silver Standard ML 104 B/10 56°34'35" 130°41'15"	Disseminated po and cp with minor pn in small gabbro stock. Mineralization is localized at the intrusive contact with Lower Jurassic siltstone.	1965-66: 1,248' dd in 5 holes. 1970-71: low level adit driven 1,478', u/g dd 7,414' in 11 holes.	2,730 T/VF 1966 (NM 04/12/69) or meas and ind: 1,911,000 at 0.80% Ni, 0.62% Cu to 700' 1966	Adit driven some 1,250' vertically below surface outcrop and 850' below lowest drill intersection failed to locate ore-grade mineralization.

B.C.-250	BAM (ARCTIC LAKE) Phelps Dodge Corp of Can L (1972) 104 G/2 57°11'20" 130°52'20"	Tetrahedrite and minor cp in fractured Permian dolomitized limestone, chert breccias and overlying sandstone.	1963-64: staked, 736' dd in 3 holes. 1967: Shawinigan Mng & Smg CL, 11,589' dd in 31 holes. 1972: geochem soil and silt survey.	slightly under 300,000 at 0.76% Cu 1967 (NM 16/11/67)	
B.C.-251	COPPER CANYON AMAX Inc 104 G/3 57°07' 131°20'40"	Cp and py disseminated in tabular zone in Triassic volcanics near syenoporphyry dykes.	1957: trenching. 1962: geoph survey.	N/A	Reported to be a "small" deposit (CIM Spec Vol 15, Table 1, No 114, 1976).
B.C.-252	GALORE CREEK Stikine Copper L 104 G/3 57°08'00" 131°27'15"	Alteration zone between syenite porphyry and metavolcanics. Cp, py, bornite, mag as disseminations, coarse replacements and fracture fillings in porphyries, breccias, and metasedimentary and metavolcanic rocks.	1956: 1,253' dd. 1963-65: mag, IP and geochem soil surveys, 129,659' dd. 1966-67: 2,480' drifts and crosscuts in one adit, 83,177' dd in 111 holes. 1972-73: Hudson Bay Mng & Smg CL, 5,233 m dd in 24 surface holes. 1976: dd.	Central zone: 125,000,000 mt at 1.06% Cu c 1973 (CIM Spec Vol 15, p 402, 1976)	
B.C.-253	SCHAFT CREEK Liard Copper ML Teck Corp 104 G/7 57°21'55" 130°59'30"	Bornite, cp and mo in veinlets and disseminations in intrusive and tectonic breccia in altered Triassic volcanics and felsic porphyry dykes and lenses near the Hickman batholith.	1959: geoph and geochem surveys. 1965-67: dd, IP survey. 1968-77: mag, IP and geochem surveys, dd. 1980: dd.	1,000,000,000 at 0.30% Cu, 0.034% MoS_2, 0.004 oz/t Au, 0.035 oz/t Ag 1981 (Teck Corp, 1981 AR)	
B.C.-254	RED DOG Northcal Res L 104 G/9 57°41'15" 130°29'00"	Upper Triassic volcanics and sedimentary rocks intruded by dykes, sills and irregular masses of andesite and dacite porphyry, and by a Jurassic to Cretaceous granodiorite dyke. Py and cp occur as disseminations in the granodiorite dyke and adjacent wallrock. Gold occurs with py, asp, sph, gal in narrow qtz-carb veins in volcanic and sedimentary rocks.	1969-73: geoph and geochem surveys, dd. 1978-80: geochem survey, trenching, dd. 1981-82: sampling.	dd ind: 1,550,000 at 0.041 oz/t Au 1980 (NM 19/03/81)	
B.C.-255	RED, CHRIS Kidd Creek ML 104 H/12 57°42'05" 129°47'55"	Py, cp and some bornite in qtz vein stockwork, fractures and disseminations in volcanic and sedimentary rocks intruded by feldspar porphyry.	1970-78: geochem, mag and IP surveys, dd. 1980: dd.	45,200,000 at 0.56% Cu, 0.01 oz/t Au 1976 (Texasgulf Inc, 1976 AR)	To a depth of 500'.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-256 SMRB, JEFF (KUTCHO CREEK) Sumac ML Esso Mnrls Can 104 I/1 58°12'10" 128°21'40"	Stratabound dispersed and massive sulphides in sedimentary and epiclastic volcanic rocks near the top of a volcanoclastic pile. Py, cp, sph, bornite.	1973-76: extensive IP, mag, EM and geochem surveys; dd. 1977-78: geoph survey and dd. 1982: u/g work, dd.	(i) SMRB: 11,000,000 mt at 1.68% Cu, 2.14% Zn, 25 g/t Ag, 0.39 g/t Au 1982 (MM 02/83) (ii) JEFF: dd-ind: 6,000,000 mt at 4.33% Zn, 2.38% Cu, 44 g/mt Ag, 0.4 g/mt Au 1979 (Imperial Oil L, 1979 AR) or combined 15.7 million mt at 1.69% Cu, 2.16% Zn, 27.7 g/t Ag 1980 (Mining Magazine, June 1981 AR)	Mineralized zone extends across the SMRB-JEFF properties' boundary.
B.C.-257 JUNE, STIKINE Dease Lake ML 104 I/5 58°15'10" 129°49'30"	Cp and minor bornite in altered andesitic greenstones and porphyritic andesites as blebs, wisps, disseminations and along fracture planes. Near qtz monzonite and granodiorite of Hotailuh batholith.	1965-68: geoph and geochem, 57,262' dd in 102 holes.	ind: 33,500,000 at 0.389% Cu 1972 (D W Ashbury 24/10/72, CSE List Stat 07/11/72, Lytton Mnrls L)	Includes 20% dilution with wallrock grading 0.15% Cu.
B.C.-258 EAGLE Esso Mnrls Can 104 I/6 58°29'40" 129°09'00"	Cp and py occur over a distance of about 4,500' at Jurassic intrusive-sedimentary contact.	1963-65: geoph and geochem surveys, dd. 1971-76: geoph and geochem surveys, dd. 1979: dd.	poss: 29,000,000 mt at 0.41% Cu, 0.04-0.16 oz/t Ag 1980 (NM 14/08/80)	MoS_2 values present.
B.C.-259 KUTCHO CREEK (LETAIN) Brinco Mng L 104 I/7 58°20'00" 128°43'40"	Chrysotile fibre veins in serpentinite sill that intrudes more or less concordantly a sequence of metasedimentary and metavolcanic rocks.	1956-58: trenching, dd, bulk sampling. 1966: mag survey, trenching, dd. 1970: trenching. 1977-78: dd.	ind: substantial tonnage asbestos (BC MM 1960, p 128)	
B.C.-260 MT. OGDEN Omni Res Inc 104 K/6 58°26' 133°20'30"	Mo occurs in qtz veins, as coatings in dry fractures, as cavity fillings and dis in an alaskite stock, and to a minor extent in adjacent sediments.	1961: geol mapping. 1967: airborne geoph surveys, dd. 1977-80: geol mapping, adit driven, dd.	c 240,000,000 at 0.30% Mo 1980 (Mining Review May/June 1981)	
B.C.-261 TRAPPER, KAREN (ELAINE) Orin Anderson (in 1977) 104 K/7 58°18'40" 132°38'20"	Granodiorite of Coast intrusives cut by 3 or 4 small alaskite stocks. Mo and py occur in portions of the East, Central and Western alaskite bodies and in the granodiorite at the northern contact of the West and Central alaskite bodies.	1962: staked. 1972: 1,000' dd in 3 holes. 1977: geol and geochem surveys. 1980: Glory Expls L (option).	inf: 60,000,000, MoS_2 grade unstated 1971 (D D Campbell 19/11/71, VSE SMF 21/04/72, Plateau Mtls & Ind L)	In 3 zones. Grade is similar to Adanac's, i.e. 0.'6% MoS_2. Estimated prior to work on the property. Subsequent dd gave "unfavourable" results.

B.C.-262 ERICKSEN-ASHBY Island Mng & Expln CL 104 K/11 58°39'35" 133°28'20"	Upper Triassic volcanics are intruded by a large tabular body of qtz monzonite and underlain by limestone and chert. Sph and gal occur as replacements in the limestone.	1929-30: trenching. 1931-52: geol mapping and dd. 1964: crosscut adit 460' and dd. 1965: trenching. 1979: geochem rock survey. 1980-81: DD.	at least 1,000,000 at 6.27 oz/t Ag, 2.23% Pb, 3.79% Zn 1964 ? (Anglo Cdn Mng Corp, VSE AL 142/80)	
B.C.-263 POLARIS-TAKU (WHITEWATER) Rembrandt GML 104 K/12 58°42'05" 133°38'10"	A wedge-shaped zone of Upper Triassic volcanics is cut by NW and N-striking shear zones. Mineralization in the shears includes qtz and carbonate veins and fragments of wall-rock partly replaced by py and asp and locally stibnite. Gold is associated mainly with asp and to a lesser extent with stibnite.	1929-35: dd, u/g dev. 1936-42: Polaris-Taku Mng CL - mng and milling operations. 1946-51: Taku River GML operated mine and mill.	85,000 at 0.42 oz/t Au at 17% dilution 1951 (Transcontinental Res L, 1953 (13th) AR)	1938-51: milled 753,000 tons, recovering 232,000 oz Au, 12,000 oz Ag, 90 tons Cu.
B.C.-264 TULSEQUAH CHIEF Cominco L 104 K/12 58°44'20" 133°34'30"	Massive to disseminated sulphides in altered zones in folded Mesozoic volcanics. Ore mnrls include cp, py, sph, gal and tennantite-tetrahedrite.	1923: u/g dev. 1928-29: u/g dev, dd. 1946: acquired by Cominco, expl and dev. 1951-57: in prod, closed Sept 57 due to low metal prices. Developed by 9 levels from several adits and a 1,017' shaft.	Proven and dd-ind: 788,000 at 0.09 oz/t Au, 2.9 oz/t Ag, 1.3% Cu, 1.6% Pb, 8.0% Zn 1970 (New Taku ML, 1971 (33rd) AR)	Previous operation used the Polaris-Taku concentrator some 4 mi to the S, which treated 1 million tons (incl prod from Big Bull) and recovered Zn, Cu, Pb, Cd, Au, Ag.
B.C.-265 ADANAC (ADERA) Adanac Mng & Expl L 104 N/11 59°42'40" 133°24'30"	Molybdenite in a stockwork of qtz veins and fine fractures at the edge of an alaskite intrusion in granodiorite of the Fourth of July batholith.	1967: dd. 1970: Kerr Addison - dd, u/g drifting and raising. 1973-74: Amax - dd. 1979: 70% interest optioned to Placer Dev L. 1980: dd. 1983: Placer dropped option.	Geol: 169,000,000 mt at 0.061% Mo (0.04% cutoff) 1981 or geol: 71,000,000 mt at 0.079% Mo (0.06% cutoff) 1981 (Sec 10-K Placer Dev L, March 1982)	
B.C.-266 ATLIN 104 N/12 59°34'50" 133°41'10"	Superficial deposits of hydromagnesite 2.5 to 3' thick. Probable source local cold mnrl springs.	1904, 1915: bulk sampling.	118,000 of which 83% would grade 41-42% MgO 1940 (BC Bull 4, p 119, 1940)	
B.C.-267 MIDWAY Regional Res L 104 O/16 59°55'35" 130°20'	Sph, gal, py in baritic Devono-Mississippian limestone, shale, sandstone. The sulph-bearing zones are in 3 stratigraphic horizons traceable over several kms. Lower zone up to 2.3 m thick; middle greater than 2.3 m; upper 2.8 m for a total strat range of about 100 m.	1980: geochem, prospecting, discovery, tr. 1981: airborne mag-EM, geochem, dd 6 holes 2,800', tr. 1982: dd 15 holes 17,334'.	ind: 2,780,000 mt at 13.3 oz/t Ag, 12% Zn, 6.1% Pb 1982 (NM 23/12/82) or c 3,500,000 at 12 oz/t Ag, 19% combined Pb-Zn 1983 (NM 17/02/83)	Amax of Can L and Procan Expl C have combined 49% interest in the deposit. Mineralized zone contains low values in Au, Cu, Sn, Bi.

DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
B.C.-268 RANCHERIA (GEM) Marbaco Res L 104 O/16 59°55'30" 130°29'	The mineralization occurs at a limestone-argillite contact near a granitic intrusive. Much of the mineralization occurs as a replacement of limestone by gal, sph, pyrrhotite, ankerite and silver-bearing tetrahedrite.	1949: dd. 1964-65: geoph and geochem, dd, adit driven. 1973: new adit driven at a lower elevation. 1978: geochem survey.	meas and ind: 79,849 at 10.70 oz/t Ag, 2.84% Pb, 6.03% Zn 1973 (VSE SMF 88-81, Marbaco Res L)	
B.C.-269 CASSIAR MOLY Cassiar Res L (in 1980) 104 P/4 59°12'40" 129°51'45"	Mo in fractures and rare qtz veinlets, and disseminated as scattered flakes and rosettes in small qtz feldspar porphyry dyke-like intrusions in qtz monzonite of Cassiar batholith, near its eastern margin.	1966-69: 2,905' u/g work in one adit, 1,500' dd. 1976: prospecting. 1980: dd.	Scattered mineralization over 460 x 460 m area. (CIM Spec Vol 15, Table 1, No 130).	Local high-grade over narrow widths. Overall grade is low, e.g. 0.026% MoS_2 across 100 metres n the crosscut.
B.C.-270 STORIE (CASMO) Shell Can Res L 104 P/4, 5 59°14'35" 129°52'20"	Py and mo as fracture fillings and rosettes in qtz feldspar porphyry dyke-like intrusions in qtz monzonite of Cassiar batholith, near its eastern margin.	1962: trenching. 1964-66: geoph surveys, dd. 1968, 1971: dd. 1979-81: dd, preliminary feasibility study.	100,500,000 mt at 0.129% MoS_2 1981 (NM 4/03/82)	Mineable by o/p.
B.C.-271 TABLE MOUNTAIN Table Mountain ML 104 P/4 59°12'40" 129°39'	Qtz vein averaging about 5' wide in sediments and volcanics of Sylvester Group. Vein contains free Au, py, cp, tetrahedrite and gal.	1937: trenching, dd. 1973-74: u/g work in decline and adit, dd. 1979: u/g work, dd. 1981: dd.	prov & prob: 28,000 at 0.5 oz/t Au, 0.34 oz/t Ag 1979 (Table Mtn ML, VSE FS 281/80) or dd-ind: 100,000 at 0.39 oz/t Au (NM 24/04/80)	In "A" zone. In 4 zones.
B.C.-272 HASKIN MTN WEST (JOEM, RAIN) Della ML 104 P/5 59°20'50" 129°30'45"	Mo mineralization at the contact of a small granitic plug with chert of lower Cambrian Atan Group.	1961: staked. 1968-69: dd.	ind: 13,500,000 at 0.15% MoS_2 to 500' 1969 (Iso ML, 1971 AR)	Located on W side of Haskin Mtn.
B.C.-273 MAGNO (SILVER QUEEN) Quartet Energy Res L 104 P/5 59°15'30" 129°50'	Ag, Pb, Zn and mag-bearing veins parallel to and often adjacent to andesite dykes cutting marbalized limestone and dolomite. A bedded py-gal-sph deposit occurs in limestone on adjacent claims.	1955: dd. 1967: geoph, dd. 1970-71: u/g work in two adits. 1975-76: geoph, dd, metallurgical testing.	(i) West vein, west of Magno fault: 101,500 prob and poss at 9.8 oz/t Ag, 12.0% Pb, 4.3% Zn 1975 (ii) West vein, east of Magno fault and East vein: 264,000 dd-ind at	Zone 1-4 claims are adjacent to Magno property.

				4.2 oz/t Ag, 4.2% Pb, 4.1% Zn 1975 (iii) Zone 1-4 claims: about 100,000 at 3.3 oz/t Ag, 3.3% Pb, 6.3% Zn 1975 (P H Sevensma 04/07/75 in VSE SMF 08/09/75, Balfour Mng L)	
B.C.-274	MACK J G Hope (in 1980) 104 P/5 59°16'30" 129°42'20"	Au-bearing qtz veins in Devonian-Mississippian greenstone of the Sylvester Group.	1934-39: trenching, sampling. 1980-81: u/g work in decline adit, dd.	drill ind: 80,000 at 0.24 oz/t Au 1980 (Brodie Hicks Engring L, 31/04/81 in VSE AL 188/81, Plaza Mng Corp)	
B.C.-275	HASKIN MTN SE (JOEM, RAIN, DAKO) Delta ML 104 P/6 59°19'55" 129°28'20"	Py, sph, cp and gal as replacement lenses and disseminations in skarn zones in Lower Cambrian Atan Group limestone along contacts with chert, argillite granitic dykes and sills.	1906-09: claims staked, assessment work. 1969-76: u/g work in two adits, dd.	250,000 at 9.41% combined Pb-Zn, 0.1% Cu, 1.45 oz/t Ag 1969 (NM 25/12/69)	Estimate based on trenching and 4 ddh. Located on SE side of Haskin Mtn.
B.C.-276	JOE (IRON CAP) Gulf Titanium L 104 P/6 59°17'40" 129°25'30"	A fault zone in Lower Cambrian sediments of the Atan Group contains a qtz vein on HW and has brecciated FW. Mineralization includes asp in the qtz vein and py, gal, and sph in the breccia. The mineralized breccia has been outlined over 560' x 5' to 200'.	1949: trenching. 1956: dd 1,498' in 5 holes. 1969-71: geoph and geochem surveys, dd 1,195' in 2 holes. 1981: geoph and geochem surveys.	40,000 ind at 6.4 oz/t Ag, 5.5% Pb, 4.14% Zn plus 40,000 inf at same grade 1956 (J Richardson, 1956, as quoted by J Kruzick 14/02/80 - in VSE SMF 03/12/80, Gulf Titanium L)	
B.C.-277	McDAME BELLE 104 P/6 59°16'18" 129°22'20"	Gal and sph as massive lenticular replacements parallel to bedding, as fracture fillings crossing the bedding and as disseminations in skarn zones. Host rock is Atan Group limestone and dolomite with minor interbeds of argillite.	1900: short adit driven. 1963-65: EM survey, dd.	(i) Caribou zone: 100,000 ind at unstated grade, incl 30,000 at 8.6 oz/t Ag, 3.6% Pb, 3.0% Zn, 0.35% Cu 1965 (ii) Yellowjack zone: 6,000 at 7.5 oz/t Ag, 4.2% Pb, 1.2% Zn, 0.2% Cu 1965 (BC RMM 1965, p 15)	
B.C.-278	WINDY (ALSEK) Falconbridge L 114 P/12 59°44' 137°45'	Cp and cobalt in massive py and po along greenstone-sedimentary contact.	1960, 1965: dd. 1974-75: EM and mag surveys. 1981-82: geoph survey and dd.	ind: 91,000,000 at 3.04% Cu, 0.09% Co 1982 ind & inf: 334,000,000 at 1.52% Cu, 0.08% Co (NM 13/01/83)	Values in Zn, Au, Ag.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
	YUKON TERRITORY				
Y.T.-1	MEL Sulpetro Mnrls L (90%) Sovereign Mtls Corp 95 D/6 60°21'05" 127°24'15"	Cambro-Ordovician carbonates and argillaceous sediments form overturned W limb of a broad syncline. A mineralized zone 10' to 40' wide occurs at limestone-phyllite contact. Baritic, limy shale contains disseminated sph, gal and minor py.	1967: Claims optioned to Newmont Mng Corp sulphides exposed. 1973-81: trenching, geol mapping, soil sampling, metallurgical test, dd, bulk sampling, environmental survey.	ind-meas: 5,271,672 at 2.05% Pb, 5.6% Zn, 52.1% barite 1979 (NM 19/07/79, p A 28)	Property in Coal R area 50 mi NE of Watson Lake; deposit tested to depth of 400-600'in 1975 drilling.
Y.T.-2	McMILLAN Noranda Expl CL 95 D/12 60°32' 127°50'	Massive sulphides up to 50' thick generally conformable with enclosing calcareous argillite and limestone of Hadrynian age. Sulphides are mainly py, gal, sph and a little asp, boulangerite, tetrahedrite and cp; some siderite gangue. Footwall rocks are cut by a thrust fault.	1948-56: geol surveys, trenching, dd. 1967-72: IP and geochem surveys, dd. 1976-77: optioned by Noranda: staking, geochem, EM and gravity surveys, dd. 1980: dd by Noranda.	ind: 1,000,000 at 10% Zn, 5% Pb, 1.8 oz/t Ag 1956 (IANA EGS 1976-15, p 154)	Property 50 mi NE of Watson Lake.
Y.T.-3	HUNDERE (MICA) Cima Res L Cdn Natural Res L 105 A/10 60°34'12" 128°52'30"	Massive sph and gal in skarn zones as replacement bodies in Lower Cambrian limestone.	1960-63: expl, access road, trenching, dd. 1966: mapping, trenching, geochem. 1979: trenching, sampling, dd. 1980-82: soil sampling, dd.	(i) Main Zone: 125,928 mt prov at 14.1% Pb, 16.4% Zn, 2.34 oz/mt Ag plus 50,000 mt poss. (ii) East Zone: 137,274 mt prov at 6.44% Pb, 6.31% Zn, 5.29 oz/mt Ag (iii) West Zone: 18,290 mt at 13.8% Pb, 7.0% Zn, 2.91 oz/t Ag 1981 (Cima Res L, 3rd Quarter Rept, 1981; VSE SMF 100/81)	Property 33 mi N of Watson Lake; deposit 210 m long with average thickness of 10-14 m; possible open pit mine with 250 tpd portable mill.
Y.T.-4	BAILEY Can Tungsten Mng Corp L (60%) Morning Star Res L (40%) 105 A/15 60°47' 128°50'50"	Locally, skarn carrying po, cp and scheelite is developed where Cretaceous granodiorite is in contact with limestone of Devonian-Mississippian age.	c 1966: discovery. 1971-75: staking, trenching, sampling, airborne mag and EM survey, dd.	ind: 305,000 at 0.96% WO_3 1975 (CMH 1976-77, p 208)	Property 50 mi N of Watson Lake; Can Tungsten's 1976 AR states "a possible geol reserve of 500,000 tons grading 0.95% WO_3."

Y.T.-5	FIDDLER Aberford Res L Amax Mnrls Expl SEREM L 105 B/1 60°08'05" 130°25'57"	En échelon qtz veins cutting Cambrian limy sediments contain wolframite, gal, cassiterite, scheelite, fluorite, stannite, sph, cp, py; on E showing scheelite in qtz-phyllite breccia.	1943: discovery. 1951-53: stripping, trenching, sampling adit, 50 tpd mill. 1961-71: mapping, stripping, trenching, geochem. 1980: dd.	1.1' x 100' at 8.45% WO_3 1951 (D C McKechnie 18/09/51 for Chillicopper Corp L in Prospectus 28/09/51)	Property 50 mi W of Watson Lake; a 50 tpd mill operated for a short time but concentrate was too high in lead to be acceptable; assay of tungsten revealed 3.2 oz/t scandium. East zone about 700' x 7-14' with 130 vertical feet exposed on surface, assays to 0.54% tungsten.
Y.T.-6	LOGTUNG Logtung Res L Amax Mnrls Expl 105 B/4 60°00'45" 131°36'37"	Disseminated W-Mo mineralization largely in stockwork of qtz veins and fractures centred on large felsic dyke related to a Cretaceous qtz monzonite stock; also in larger qtz veins and in skarn beds. The deposit contains scheelite, mo, powellite with accessory sulphides, fluorite and beryl.	1977-78: optioned to Amax Expl Inc; geol mapping, geochem soil survey, dd, mag and IP surveys, metallurgical studies. 1979-80: dd, decline, bulk sampling for metallurgical tests from a 1,600' decline driven during 1980. 1981: mill site, metallurgical and environmental studies.	geol: 179,000,000 at 0.12% WO_3, 0.052% MoS_2 includes: 58,000,000 at 0.16% WO_3, 0.062% MoS_2 1978 (Logtung Res L, VSE FS 131/79, p 5)	About 95 mi W of Watson Lake at Yukon-B.C. border; zone open to N, W and at depth; ddhs in 1977 from 98 to 363 m deep; o/p mng possible.
Y.T.-7	LOGJAM SILVER A.M.P. Expls & Mng CL 105 B/4 60°01' 131°35'	Asp, py, gal, sph in qtz veins in sill-like diorite body.	1944-46: discovery, dd. 1961-67: restaking, trenching; two adits driven 975' and 720'. U/g dd, drifting. crosscutting.	prob: 77,000 at 11.4 oz/t Ag, 0.088 oz/t Au plus an equivalent tonnage possible 1980 (George Cross Newsletter 30/01/80)	Property near the head of Logjam Creek, about 175 mi by road W of Whitehorse.
Y.T.-8	RED MOUNTAIN Tintina ML (50%) Amoco Can Petr CL (50%) 105 C/13 60°59' 133°46'	Dis Mo associated with qtz stockwork core within an altered Cretaceous qtz monzonite stock. Drilling has indicated continous mineralization within block 1 219.2 m x 426.7 m to depth in excess of 914.4 m.	1967-69: airborne mag, rad and EM surveys, soil geochem, dd. 1978-82: Amoco option, surface work, dd; metallurgical testing.	79,111,000 at 0.223% MoS_2 (0.15% cutoff) or 41,274,000 at 0.268% MoS_2 or 24,719,000 at 0.307% MoS_2 (0.25% cutoff) 1981 (NM 10/12/81, p 1)	Property at Slate (Red) Mtn 50 mi ENE of Whitehorse; possible large tonnage o/p or u/g by large-scale block caving methods via adit. In 1980, hole 19 intersected 1,712' averaging 0.15% MoS_2.
Y.T.-9	BIG THING Azam Energy Corp 105 D/2 60°05'15" 134°41'30"	Gold and silver-bearing qtz veins cut granodiorite; has altered zone bordering the veins. Py, asp, sph, gal, minor cp form lenses and shoots in veins.	1905-16: expl, inclined shaft, adit, 4 levels, some hand-sorted shipments. 1936-37: surface trenching. 1965-69: trenching, 2 new adits, surface and u/g dd, 300 tpd mill operated June 1968-Oct 1969. 1975-76: some u/g rehabilitation, small tonnage stockpiled.	proven-poss: 6,321 at 0.38 oz/t Au, 21.7 oz/t Ag ($80/t cut-off) 1976 (NM 16/09/76)	Property 6 mi S of Carcross; adits between elevation 5,100 to 5,600'; propose to change company name to Azam Energy Corp. Prod 7,700 oz Au, 207,000 oz Ag from 56,000 milled 1968-69.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-10	VENUS Tagish Lake Synd L (United Keno Hill ML option) 105 D/2 60°01'25" 134°37'40"	Gold and silver-bearing coarse qtz-carb veins, traced for 6,000' on surface, cut andesite and andesite breccia of Cretaceous Hutshi Group. Veins carry irregular bands and lenses of py, asp, gal, minor sph and cp. Significant amount of ruby silver; also some jamesonite, antimony, cerusite	1901-63: discovery, intermittent expl and u/g work. 1966-71: u/g dev, 2 main adits, 5 levels, 400' vertical depth; milled c60,000 tons in 1970-71; company (Venus ML) placed in receivership. 1979-81: optioned by United Keno Hill ML in mid-year; rehabilitated old workings, metallurgical testing, erected 100 tpd mill 6 mi S of mine in B.C., small tonnage mined.	119,830 at 6.6 oz/t Ag, 0.22 oz/t Au, 1.89% Pb, 1.37% Zn plus 51,000 mill tailings at 0.09 oz/t Au, 1.31 oz/t Ag 1981 (NM 26/03/81 p 31)	Property at Tagish Lake about 12 mi SSE of Carcross; the major operating problems during 1970-71 was dilution due to narrow vein widths (mill heads in 1970 were 0.15 oz/t Au, 5.30 oz/t Ag, 1.15% Pb, 0.98% Zn, 0.05% Cd). Brought to production stage mid-1981 at cost of $9.2 million but operations suspended due to decrease in precious metal price and increased operating costs.
Y.T.-11	BECKER-COCHRAN E Bergvinson 105 D/3 60°11' 135°13'	Stibnite and py in qtz gangue as irregular patches and lenses in 5' wide shear zone in small body of altered acidic volcanic rocks enclosed by granitic rocks of the Coast Intrusions.	1893: discovery. 1914-15: some u/g dev. 1951: some u/g dev. 1964-67: bulldozer stripping, surface mapping and sampling, bulk sample tested in Ottawa, u/g work from 3 adits, IP survey. 1973-76: restaking, soil sampling, prospecting, evaluation of old records, EM survey.	prob-poss: 175,000 at 3%-5% Sb 1977 (NM 28/04/77 and 01/07/76)	Property on E side of Carbon Hill about 15 mi W of Carcross. Tonnage and grade figures based on 1964-66 work. Property optioned by Con Am Res L in 1976 has been returned to vendors.
Y.T.-12	WHITEHORSE COPPER BELT Hudson Bay Mng & Smg CL (Whitehorse Copper Division) 105 D/10, 11 60°34'30" 134°53'10" to 60°40'30" 135°07'	Copper deposits in calc-silicate-magnetite skarns along the irregular contact between Triassic Lewes River sediments and Cretaceous granodioritic to dioritic rocks of Coast Intrusions. The deposits contain bornite, cp, minor chalcocite, native Cu, tetrahedrite, moly.	1897-1929: discovery, intermittent dev and mng from shallow shafts at several deposits. 1948-62: geol, mag surveys, dd, trenching. 1963-79: by 1963 New Imperial ML (Whitehorse Copper ML in 1972) acquired all the properties in the copper belt; prod from 6 o/pa 1967-71 suspended due to low metal	(i) Cowley Creek: 975,548 0.89% Cu, 0.091% MoS_2, 20¢/t Au and Ag, 15% dil 1972 (ii) Cowley Park South: 181,818 mt prov at 2.3% Cu 1980 (iii) Keewenaw: 223,387 at 1.06% Cu, 96¢/t Au and Ag, 15% dil 1972 (iv) Gem: 688,994 at 1.01% Cu, 25% dil 1972	The deposits listed are near-surface deposits. Tonnages and grades are mostly of the proven-probable category; MoS_2, Au, Ag and Fe values from 1965 report of A C Sherl may not be exact for tonnage figure which were reported in 1972.

			price, resumed end of 1972 at Little Chief u/g mine. Exploration on copper belt continued with surface expl, mag, EM, IP, geochem and dd. 1980: most of the 52 holes drilled were on the Cowley Park South Zone. 1981: mng ceased at year-end with exhaustion of economic reserves at Little Chief mine.	(v) Kodiac Cub: 63,000 at 1.18% Cu, 15% dil 1972 (vi) Black Cub: 21,964 at 1.25% Cu (South Pit) and 172,000 at 0.82% Cu (North Pit), 15% dil 1972 (vii) Beat Chance: 492,737 at 0.71% Cu, 20% Fe, 26¢/t Au and Ag, 15% dil 1972 (Whitehorse Copper ML, 1971 AR; A C Sherl 25/11/65 in TSE List Stat 2243, New Imperial ML, 1966; IANA Geol & Expl 1979-80, p 4)	Substantial expl has been carried out on the copper belt in recent years with little success; deep drilling since 1977 tested the possibility of u/g ore in areas of known surface deposits. Whitehorse Copper ML was absorbed by Hudson Bay Mng & Smg CL in 1979.
Y.T.-13	STORMY GROUP Rio Alto Expl L E & B Explo Inc 105 F/7 61°29'50" 132°48'15"	Molybdenite and scheelite in skarn zone at contact of Lower Cambrian limestone and granodiorite.	1955-60: discovery, trenching, adit, drifts and crosscuts, dd. 1967-68: bulldozer trenching. 1975-77: restaking; stream sediment program by Noranda. 1979-80: bulk sampling, mill testing, assaying, dd.	prob: 15,000 at 0.73% Mo or 17,000 at 1.05% WO3 c 1959 (WM April 1969, p 37)	Property at head of Upper Sheep Creek, 36 mi SSE of Ross River. "The Mo and W zones do not completely coincide and no combined grade calculation was made" (WM April 1969, p 37). Seasonal operation planned at up to 100 tpd rate.
Y.T.-14	CACHE CREEK Ketza River ML (controlled by Conwest Expl CL) 105 F/9 61°32'20" 132°16'10"	Nearly horizontally-bedded po, Au-bearing asp, py, minor cp replaces Lower Cambrian limestone along a fault.	1954-60: discovery, trenching, sampling, geol survey, dd.	75,000 at 0.35 oz/t Au c 1958 (NM 09/02/78, p 13 A)	Cache Creek is a tributary of Upper Ketza River, 31 mi SSE of Ross River. In 1958 dd outlined a deposit 600' x 12' to 200' depth.
Y.T.-15	KETZA RIVER (KEY AND STUMP) Iona Inde Inc 105 F/9 61°31'50" 132°09'30" ("A" Vein)	Silver-lead mineralization along vein breaks cutting silty limestone and argillaceous rocks of Cambrian age. Vein material is commonly qtz and siderite with argentiferous gal, freibergite, py, minor asp and sph.	1947-61: discovery, staking, expl by short adits; shipped 15 tons Ag-Pb ore from Key 3A vein in 1961. 1964-69: geochem soil testing, stripping, trenching, dd, Key 18 zone discovered 1968; several adits, some u/g dev. 1978-80: EM survey, some dd and u/g work; new adit on A-1 zone.	(i) "A" Vein zone: 40,000 at 8.35% Pb, 10.28 oz/t Ag over width of 6.2' above 100' level 1970 (ii) K-18 B Vein: 10,000 at 12% Pb, 20 oz/t Ag 1978 (NM 15/08/74 and 18/05/78, p 23 A)	The "A" vein and K-18 vein reported to contain 55,000 outlined at 12% Pb, 17 oz/t Ag plus 137,000 of similar grade indicated 1969 (NM 15/08/74); new vein 14' wide found in 1979 in A-1 zone; metallurgical testing proposed.
Y.T.-16	SILVER CREEK SHOWINGS (GROUNDHOG CREEK) Canol ML 105 F/10 61°38'40" 132°49'20"	Siderite and qtz with massive gal and minor py in lenses and bands in a steeply-dipping vein break cutting Devonian dolomite.	1967-69: trenching, geochem soil sampling, dd. 1977-78: surface expl, sampling, dd. 1979-80: small tonnage mined by o/p and shipped out.	(i) No 1 Zone: 195' x 1.5' to 3' at 45.4 oz/t Ag, 71.1% Pb (ii) No 2 Zone: 200' x 17.5' at 8.6 oz/t Ag, 14.71% Pb 1968 (NM 14/03/68 and 05/12/68)	Property between Upper Groundhog Creek and Seagull Lakes 26 mi SW of Ross River. Exploration has shown that the veins are shallow.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-17	BARITE MOUNTAIN P Vereluce (in 1975) 105 F/14 61°50' 133°01'	At least 12 barite-bearing veins 1' to 10' wide in a zone of brecciated Devonian limestone 30' wide partly replaced by barite.	1945: discovery, staking. 1963: restaking, tote road, 3 tons barite mined.	proven: 50,000 tons of barite 1945 (GSC P 45-21, p 28)	Barite Mtn is near mile 118 on the Canol Road; grade of 99.2 and 99.7% $BaSO_4$ in two analyses; limited potential due to scattered narrow veins on steep mtn face (GSC, P 64-36, p 41).
Y.T.-18	CAB Imperial Mtls Corp 105 F/14 61°52' 133°23'	Two scheelite-diopside-pyrrhotite skarn zones occur near contact of Lower Cambrian metasediments and a Cretaceous qtz-monzonite batholith.	1968-71: discovery, staking, geol mapping, channel sampling, geochem soil and silt sampling, dd. 1978-82: geol mapping, trenching, chip sampling, geochem and geoph surveys, dd.	dd-ind: 2,700,000 mt at 0.81% WO_3 (min mng width 3 m, 0.4% WO_3 cutoff) in 2 zones 1982 (NM 8/07/82)	Property 36 mi WSW of Ross River. Under option by HBM&S since 1978.
Y.T.-19	EAGLE Tintina ML 105 G/3 61°08'30" 131°09'00"	SW of Tintina fault, Cambrian sediments, altered to hornfels within 1 mi of granodiorite plug, contains massive to disseminated sph, gal and freibergite in limestone at crest of small anticlinal folds or as pods and lenses in calc-qtz veins.	1961-76: discovery, trenching, sampling, adit, u/g dd and dev, soil and silt geochem surveys, geoph survey, surface dd. 1980: explor No 8 vein.	ind-inf: 100,000 at 20 oz/t Ag, 6% Pb, 10% Zn 1980 (NM 31/01/80, p 3)	Deposit 70 mi SE of settlement of Ross River.
Y.T.-20	MATT BERRY (BARB) Sovereign Mtls Corp 105 H/6 61°28'15" 129°25'	Mineralized layers associated with axis of syncline in Devonian/Mississippian argillite and qtz-chlorite schist contain disseminated to massive gal, sph, py and minor cp, with a qtz-siderite gangue.	1930s: rediscovered. 1943: explored by Cominco. 1960-72: surface expl, dd, IP, mag, EM and silt and soil geochem work. 1977-80: restaked, trenching, EM survey, dd. 1981: geol and geochem surveys.	ind-inf: 588,000 at 3.0 oz/t Ag, 6.1% Pb, 4.6% Zn 1977 (plus 0.38% Sb, some Cd, over 6' 1970) (Matt Berry ML, 1970 AR; Ikona C 08/07/77 for Sovereign Mtls Corp in VSE SMF 22/01/79)	Property at Frances Lake; a flat-dipping mineralized zone under deep overburden, open along strike and to depth. Under option by Cominco L.
Y.T.-21	HOWARDS PASS Placer Dev L (51%) Essex Mnrls C (49%) 105 I/6, 11, 12 62°28' 129°10' (XY) 62°33' 129°33' (Anniv)	Extremely fine-grained gal and sph in thin conformable laminae in Ordovician-Devonian graphitic shale of the Road River Fm within the Selwyn Fold Belt. Deep holes have intersected mineralization at 1,000' to 1,200' depths in Central zone of YX basin.	1968-77: regional geochemistry, discovery of high grade showings, staking, geol mapping, soil sampling, gravity survey, trenching, dd, metallurgical testing, building 50 mi all-weather road. 1977-79: dd. 1980-81: adit, 2 x-cuts dd.	(i) XY: 59,000,000 mt dd-ind at 2.1% Pb, 5.4% Zn (includes 8,200,000 mt at 5.5% Pb, 10.6% Zn) (ii) Anniv: 61,000,000 mt dd-ind at 2.1% Pb, 5.4% Zn plus 360,000,000 mt inf at 7% Pb-Zn in XY, Anniv and OP deposits 1982 (Placer Dev L, written commun, Sept 2, 1982)	Property 100 mi ENE of Ross River at NWT border, is 1-3 mi wide with NW length of 26 mi. Three main mineralized areas: XY basin at border; Anniv Basin, 14 mi from XY; and OP area, 5 mi from Anniv. Some parts of XY and Anniv may be amenable to o/p mng.

Y.T.-22	PIKE LAKE Atsui Mng Corp L (controlled by Cima Res L) 105 J/2 62°10' 130°42'	Paleozoic cherts and shales intruded by a Cretaceous stock. Po, asp, py, cp, tetrahedrite and minor bornite, sph, gal as disseminations and veinlets in alteration zone in a biotite granite dyke.	1966-67: airborne mag and EM, staking, ground mag, EM, IP, geol and geochem surveys, trenching, packsack dd. 1978: geol investigation. 1981: geol mapping, dd.	pot: 300,000 mt at 0.5% Cu and 62.2 g/t Ag 1981 (Cima Res L, 3rd Quarter Rept 1981)	The property contains an anomalous zone, over 2 mi long; and where tested to bedrock indicates a porphyry-type Ag-Cu deposit that has o/p potential.
Y.T.-23	DY Cyprus Anvil Mng Corp 105 K/3 62°14' 133°02'	A sequence of banded and massive sulphide horizons from 20 to 200' thick between 1,800' and 2,400' below the surface in moderately dipping limb of a major antiform, probably in Ordovician graphitic phyllite.	1964-65: airborne, mag and EM anomalies. 1976-77: deposit discovered by deep dd. 1978-81: dd.	21,000,000 mt at 5.6% Pb, 6.9% Zn, 85 g/mt Ag 1981 (Cyprus Anvil Mng Corp Interim Rept, 1st Quarter)	The DY mineralized zone extends more than 5,000' along strike and is up to 1,500' wide; best core section assayed 6.37% Pb, 11.58% Zn and 115 g/mt Ag over 84'; the DY is located 12 mi SE of the Anvil mine and 2 mi SE of the Vangorda deposit.
Y.T.-24	SWIM LAKE Cyprus Anvil Mng Corp 105 K/3 62°12'50" 133°01'50"	Pb-Zn-Ag zone in a 20 million ton pyrite deposit, a tabular-like sulphide mass in Ordovician sericitic and graphitic phyllites. Sulphides avg about 50% of zone: py, sph, gal, po, marc and cp with minor asp, mag and tetrahedrite. Qtz is most common gangue mnrl.	1963-66: airborne mag, staking, ground mag, EM, SP and gravity surveys. 1965-66: dd. 1973-75: AEX Mnrls Corp option, dd. 1979: purchased by Cyprus Anvil. 1980: dd.	proven-ind: 4 300 000 mt at 3.8% Pb, 4.7% Zn, 47 g/t Ag, minor Cu and Au (undiluted) 1978 (Cyprus Anvil 1978, AR; Kerr Addison 1966 AR)	Swim deposit is 6 m SE of Vangorda property; Cyprus Anvil Mng Corp purchased in 1979 several deposits from Kerr Addison ML, Cdn Natural Res L and Vangorda ML: Grum, Swim and Vangorda. Probable metallurgical recovery problems because material is finer grained than that of the Anvil mine.
Y.T.-25	GRUM Cyprus Anvil Mng Corp 105 K/6 62°16'10" 133°13'20"	Massive sulphide lenses parallel to limbs of a recumbent fold in Ordovician phyllites. The deposit comprises sph, gal, py, barite, minor cp, po, mag, asp in graphitic phyllite and sericite-qtz phyllite.	1973-74: AEX 73 syndicate using geol and geoph features discovered Grum deposit by dd near the Champ deposit. 1975-79: surface dd, 9,700' decline, u/g work and dd, evaluated o/p mng, metallurgical and pilot plant testing, feasibility studies. 1980-81: dev studies.	prov-ind: 28 000 000 mt at 3.1% Pb, 4.9% Zn, 48 g/mt Ag 1978 (includes 15 600 000 mt at 3.1% Pb, 5.0% Zn, 47 g/mt Ag open pit mineable) 1979 (Cyprus Anvil 1978 AR and 1979 AR)	Deposit is 7,600' NW of Vangorda deposit; both o/p and u/g mng methods needed to mine Grum. Purchased by Cyprus Anvil early in 1979. Metallurgical compatability of Grum ore and Anvil ore under study.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-26	VANGORDA Cyprus Anvil Mng Corp 105 K/6 62°15'10" 133°11'00"	Geology and mineralogy is similar to that of Swim Lake.	1953-56: staking, geoph, gravimetric surveys, dd. 1963-68: aeromag survey, limited dd, feasibility studies. 1970: 1-ton sample of drill core for metallurgical tests. 1980-81: dev studies.	6,100,000 mt mineable at 3.5% Pb, 4.6% Zn, 50 g/mt Ag 1979 plus 12,600,000 tons of low-grade to barren sulphides 1957 (GSC Bull 208, p 49, 1972; Cyprus Anvil 1979 AR)	This is a flat-lying o/p type deposit, purchased in 1979 from Kerr Addison ML and Vangorde ML. Early work determined deposit to 300' depth, also over 0.27% Cu, 0.02 oz/t Au.
Y.T.-27	CLEAR LAKE (SUE) Getty Cdn Mtls Essex Mnrls C (49%) 105 L/14 62°48' 135°00'	The Proterozoic to Paleozoic Anvil Range Group of rocks contains a stratiform, shale-hosted massive, pyritic sulphide body with some sph, gal and barite.	1966-67: staking, airborne and ground mag and EM surveys, dd. 1974-79: restaked as Sue; EM, mag and gravity surveys, soil sampling, dd.	25,000,000 at 80% pyrite, sub-economic Zn, Pb, Ag 1979 (G Kent, Geoscience Forum, Whitehorse, Dec 1979)	Property along Tintina Fault, 60 mi NW of Anvil mine; sulphide zone open at both ends along strike and to depth. Hole 79-19 intersected massive sulphides from 209.1 m to 221.0 m that assayed 18.37% Zn, 2.15% Pb, 64.8 g/t Ag.
Y.T.-28	LOOKOUT M H Ewing (in 1976) 105 M/13 63°51'50" 135°52'30"	Massive sulphide in small pods and lenses along vein breaks in Lower Cretaceous qtzite, schist and intercalated greenstone lenses; includes gal, limonite and pyrolusite.	1918-20: 3 short adits, incline to 90' depth. 1940's: some prospecting and exploratory work. 1964-66: geochem prospecting, stripping, u/g rehabilitation, overburden dd.	Middlecoff Zone: "A" vein: 20' x 2' at 27.4 oz/t Ag, 0.7% Zn "B" vein: 45' x 3.2' at 22.6 oz/t Ag, 18% Pb, 1.2% Zn 1964 (NM 24/12/64)	Property located on Mount Haldane.
Y.T.-29	SHANGHAI Cima Res L (40%) United Keno Hill ML (60%) 105 M/13 63°56' 135°39'	Ag-bearing vein zones cutting qtzite, schist and graphitic phyllite on opposite limb of anticline on which the Keno Hill veins are located. Sph, py, gal occur in irregular pods which qtz and calcite.	1927: staking. 1948-58: shallow shafts and adits. 1962-66: stripping, adit, u/g dev and dd. 1974-75: geol mapping, stream and soil geochem, trenching.	(i) 170' x 8.2' at 1 oz/t Ag, 0.5% Cu, 0.4% Pb, 13.6% Zn (ii) 30' x 5' at 34.5 oz/t Ag, 8.2% Pb, and 7.2% Zn 1966 These are the best assays from drifting on the vein (NM 10/03/66 and 07/07/66)	Property 6 mi W of Elsa; main adit 250' below the prospect level intersected vein 330' from portal; vein drifted on for 2,000'.
Y.T.-30	FORMO Rio Plata Res L 105 M/14 63°56'30" 135°22'	Irregular lenses containing sph, py and tetrahedrite in qtz-siderite gangue within a vein in a fault zone cutting graphitic, qtz-mica schist and greenstones of Jurassic-Cretaceous age; high grade where fault cuts greenstone.	1925-30: expl, some high-grade mined. 1948-49: a little hand cobbed ore shipped. 1952-53: 2 adits and u/g dev. 1961-62: shallow shaft and a little hand sorted ore shipped. 1973-75: trenching, soil sampling, ground mag, EM, dd.	proven-ind: 44,000 at 16 oz/t Ag, 6.9% Pb, 10.7% Zn 1965 (D D Campbell 10/11/65 in Peso Silver ML, 1965 AR)	Property on Galena Hill 5 mi NE of Elsa. This deposit extends from surface to a depth of about 350'; it is the NE extension of the Hector-Calumet vein fault system.

Y.T.-31	KENO-GALENA HILLS United Keno Hill ML 105 M/14 63°54'50" 135°18' (Onek mine)	Gal, sph, freibergite, siderite and py comprise the principal mineralization of veins in dilatant zones in NE-trending faults cutting thick-bedded Lower Cretaceous qtzite and conformable lenses and sills of metadiorite and metagabbro ("greenstone").	1920-50: trenching, pitting, open cuts; shallow dd, shafts and adits; a little dev and high grade shipped. 1952: about 25,000 tons of developed ore shipped from Onek mine. 1959-60: adit, some u/g work on Dragon. 1962-66: 30,000 tons - dev ore mined at Onek and 16,000 tons from Comstock Keno; adit, some u/g work on Black Cap. 1977: dd, adit on Ruby, fill-in dd and proposed o/p at Black Cap. 1979-80: dd and u/g work on SW Husky; overburden drilling, stripping. 1981-82: dd and overburden drilling, stripping.	(i) South-West Husky: 91,277 at 18.5 oz/t Ag (diluted) 1980 (ii) Black Cap: possible o/p. (iii) Moth: 105' x 37.1' at 15.57 oz/t Ag, 6.9% Zn, 1.7% Pb (possible o/p). (iv) Onek: 123,491 at 10.27 oz/t Ag, 4.4% Pb, 13.0% Zn 1953 (v) Dragon: 25' x 5' at 36.8 oz/t Ag, some Pb Zn (projected extension of Calumet No 18 vein). (vi) Comstock Keno: 9,000 proven-poss at 29.8 oz/t Ag (dil 15%) (vii) Silver King: 10,000 at 24.7 oz/t Ag 1980 (viii) Lucky Queen: 7,500 at 41.6 oz/t Ag 1980 (ix) Calumet 1-15: 83,958 drill ind at 21.6 oz/t Ag 1980 (x) Bellekeno "48" vein: 16,000 o/p mineable at 20.7 oz/t Ag 1980 (United Keno Hill ML, 1950, 1953, 1960, 1977-1980 ARs; NM 20/03/80, p 28) (xi) Elsa group of mines, prior to closure: 266,900 prov-prob and in stock pile at 27.0 oz/t Ag, 4.1% Pb plus 175,000 poss at 19.7 oz/t Ag Dec 31, 1981 (United Keno Hill ML, Interim Rept to Mar 31, 1982)	United Keno Hill ML, controlled by Falconbridge was formed in 1946 and now owns or controls about 75% of the claims in this area. The company operated several mines and systematically explored the area since 1963 with a program of overburden dd. The mines were closed July 13, 1982.
Y.T.-32	MT HINTON United Keno Hill ML 105 M/14 63°52' 135°07'	Ag-Au-bearing qtz veins occur as fracture fillings with lenses and pods of massive sulphides, chiefly gal, jamesonite, sap, py, minor sph and cp in Lower Cretaceous (?) Keno Hill qtzites.	1920: staking, trenching. 1940: restaking, 100' adit. 1966-68: purchased by United Keno; trenching, soil sampling, overburden drilling, 25'shaft. 1980: drilling.	No 21 Vein: 40 T/VF at 1.2 oz/t Au, 18.3 oz/t Ag No 24 Vein: 80' x 1.6' at 0.5 oz/t Au, 45.1 oz/t Ag c 1968 (AC 105 M(52), 1975)	Mt Hinton is 7 mi SE of Keno Hill.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-33	PADDY-CAROL Cdn Reserve Oil & Gas L 60% Silver Spring ML 40% 105 M/14 63°56'52" 135°22'45"	Gal, sph, py, freibergite, minor cp with qtz siderite gangue in vein system exposed for 1,200' at contact of Cretaceous greenstone sill and Jurassic (?) lower schist unit.	1964-65: stripping, ground sluicing, short adits. 1967-69: purchased by Silver Spring ML; trenching, and sampling, u/g work. 1971: adit, drifting, u/g dd. 1975: trenching, dd. 1978: 250 tons ore custom milled at United Keno Hill ML.	4,000 tons with recoveries after milling of 32.5 oz/t Ag, 168 lbs/t Pb 1978 (J R Dundas 14/06/78 for Silver Spring ML in VSE SMF 17/08/78)	Property on N face of Galena Hill below Elsa-Keno road. Can Tungsten Mng Corp to acquire 70 per cent of Silver Spring's properties.
Y.T.-34	PLATA AND INCA Cyprus Anvil Mng Corp (80%) Cima Res L (20%) 105 N/9 and O/12 63°35' 132°02' (Zone 2)	Veins with varying associations of gal, sph, tetrahedrite, boulangerite, asp, py, siderite, qtz occur in faults cutting Proterozoic sediments and overlying Ordovician-Mississippian sediments mineralized zones occur in or near thrust fault that bring these two groups of rocks into juxtaposition.	1967-69: reconnaissance geochem and prospecting defined anomalies and showings, staking. 1972-76: restaking, trenching, ground EM, soil sampling, dd, airstrip, bulk sampling.	(i) Zone 2: 795 T/VM at 35% Pb, 84 oz/t Ag 1976 (in southern section of zone) (ii) Zone 6: 70' x 2' at 0.17 oz/t Au, 70 oz/t Ag, 15% Pb 1973 (iii) Zone 7: 70' x 5' at 70 oz/t Ag, 27.5% Pb 1974 (iv) Zone 12: 130' x 5' at approx 47 oz/t Ag, 30% Pb 1974 (IANA EGS 1975-9, p 18 and 1977-1, p 114; NM 29/11/73)	Property in Hess Mtns, 100 mi E of Keno Hill. At least 42 showings discovered to 1976. Bulk samples (100 tons) from zones 1, 2 and 6 flown out at a profit. Zone 2 has potential for a small scale operation.
Y.T.-35	BARITE (MOOSE) Nusper Res L 105 O/1 63°04' 130°12'	Steeply dipping zones of bedded barite in Devonian-Mississippian sediments.	1972-74: staking, trenching, chemical analysis of samples. 1976-77: option by Yukon Barite CL, trenching, sampling. 1978: dev and marketing studies.	ind: 3,000,000 at 84% $BaSO_4$, 12.14% SiO_2 1974 (Yukon News 12/12/74; IANA EGS 1975-79, p 22)	Property about 12 mi SW of MacMillan Pass. Work by Yukon Barite CL indicated a zone of barite grading 92% $BaSO_4$ of direct shipping grade potential.
Y.T.-36	JASON Ogilvie Joint Venture (Aberford Res L & Brinco L) 105 O/1 63°09' 130°15'	Bedded and spotty barite with associated Pb-Zn mineralization within black shale unit at the same stratigraphic horizon as adjacent Tom property to the E.	1974-78: staking, geol, geochem and gravity surveys, dd. 1979-80: optioned to Pan Ocean Oil L; geoph, geochem, dd. 1981: dd.	ind: 10,000,000 at 7.46% Pb, 7.15% Zn, 86 g/mt Ag 1982 (NM 14/10/82)	The Jason deposit lies west of the Canol Road, 5,000 m west of the Tom deposit. A 2,000' shaft proposed.
Y.T.-37	TOM Hudson Bay Expl & Dev CL 105 O/1 63°10' 130°09'	Stratiform laminated to massive sulphides at the base of a pile of thick shale of Canol Fm of Devonian-Mississippian age in a shale basin and at margins where thickening develops. A West and a smaller East mineralized zone lie on what	1951-58: discovery, surface expl, dd. 1967-70: mapping, prospecting, adit, drifting, surface and u/g dd. 1978-79: dd. 1980-81: surface dd, u/g dev, adit (decline).	prov-prob: 10,800,000 at 7.5% Zn, 6.4% Pb, 2.2 oz/t Ag 1982 plus 10,000,000 at 4.6% Zn, 0.9% Pb, trace Ag 1972 (IANA EGS 1979-4, p 3; G&M 4/05/82, p B12)	Property 10 mi SW of MacMillan Pass and about 130 mi E of Ross River along the North Canol Road. A $10 million u/g program (1980-82) to establish additional

		may be the same stratigraphic horizon in area of folding. Several mineralized members (A-G) of West zone contain varying amounts of gal, sph, py, minor cp, tetrahedrite, boulangerite and a variety of sulphosalt mnrls with bulk of tonnage in unit D where gangue is principally barite. The East zone has been altered by shear stresses and faulting.			reserves below the areas drilled up to 1980. Development work completed in March 1982 but dd to explore extension of ore zone deferred.
Y.T.-38	TEA Yukon Barite CL 105 O/2 63°02' 130°37'	Bedded barite in Upper Devonian Bear River shale.	1975: discovery, geol mapping, geochem soil sampling, trenching bulk sampling. 1976: Yukon Barite CL option, geol mapping, stripping, bulk sampling, road built. 1977: quarried 10,000 mt barite and shipped to mill site at Ross River. 1980: Millchem Inc mined 900 mt of barite. 1981: dd, bulk sampling. 1982: mined 10,000 t and shipped to Ross River.	267,342 tons of direct shipping barite (sp gr 4.24) (Yukon Barite CL, Oct 1976, Feasibility Rept, IANA Assess File)	Deposit 17 mi SW of Tom property and 5 mi N of Canol Road; equipment for mill was delivered to site at Ross River but never assembled. In 1982 the company signed a contract with Gulf Can L to supply 4,500 tons of barite annually for two years and contract with Esso for 1,200 t. Mill under construction at Ross River.
Y.T.-39	CATHY Baroid of Can L 105 O/7 63°16' 130°37'	Black shale with interbedded horizons of barite and limestone within E-W trending sequence of Devono-Mississippian sedimentary rocks.	1975-76: staking, geol and geochem, sampling, metallurgical work, and dd. 1980: dd.	500,000 tons of commercial grade barite (sp gr 3.8-4.4) 1980 (Tempelman-Kluit, D 1/11/80 IANA Ykn Mnrl Ind, 1980 p 16 and IANA Assess Rept Doc No 090206, 1977)	Property 170 km NE of Ross River and 19 km W of Yukon-NWT border.
Y.T.-40	HORN Cdn Indat'l Gas & Oil L (in 1970) 105 O/12 63°42'15" 131°31'30"	A qtz-carb vein complex with po, some py and minor cp in sheared and fractured zones in Tertiary volcanics capping Ordovician-Silurian sediments.	1968-70: staking, geochem, prospecting, geol mapping, sampling.	ooss: 1,250,000 at unstated Cu grade 1970 (IANA Assess Rept Doc No 060182, 1970)	Property on Rogue River area about 130 mi E of Mayo. Sampling across 30' assayed 0.21% Cu and another sample across 5' assayed 0.49% Cu. Cdn Indat'l Gas & Oil was merged into Norcen Energy Res L in 1975.
Y.T.-41	VAL Prism Res L Chieftain Mnrls L E&B Expls L Asamera Inc 106 C/5 64°16' 133°42.7'	At South Hill zone, dolomite, gal, a little sph, py and jamesonite in vein structure in Hadrynian Pinguicula Group. The Siltstone zone is a fracture-filled Ag-Pb occurrence.	1977: mnrl discovery while prospecting geochem anomalies. 1978-79: trenching, geol and gravity surveys, dd. 1980-81: dd.	(i) South Hill zone: 205,140 at 6-14% Pb-Zn, 6.04 oz/t Ag 1981 (ii) Siltstone zone: 22,000 at 26.7% Pb, 7.3% Zn, 30 oz/t Ag 1981 (Prism Res L, VSE SW 8/03/83, p 18-19, NM 8/5/80, p 5)	Kathleen Lakes area 65 km NE of Keno Hill.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-42	VERA Prism Res L (see Val above) 106 C/5 64°18.5' 133°44.9'	Vein structure containing wallrock fragments, dolomite, siderite, qtz, gal, a little sph, py, and jamesonite in dolomite of the Gillespie Group of Helikian age.	1977-80: geochem, prospecting discovery of Ag-Pb zones, trenching, sampling, gravity survey, dd. 1981: dd, adit, composite sample for metallurgical test work.	dd-ind: 937,000 at 3.71% Pb-Zn, 8.93 oz/t Ag 1981 (Prism Res L, VSE SMF 8/03/83, p 18-19)	Kathleen Lakes area; two shoots within 1,500' length dd tested to 300' depth.
Y.T.-43	GOZ CREEK Barrier Reef Res L 106 C/7 64°25'55" 132°31'00"	Sph (weathered to smithsonite in places), qtz, minor gal, py, boulangerite occur in flat-lying dolomitized carbonate strata of the Lower Cambrian Sekwi or Backbone Fm overlain by a shale unit. Types of mineralization are: breccia zones; fracture and vug fillings; disseminations in silica layers; and weathered zones.	1973-75: discovery, prospecting, staking, stream sediment sampling, geol work, dd, metallurgical testing. 1977: economic study.	pot: 12,000,000 at 8% Zn, minor Ag, Cd 1975 (NM 25/12/75)	Property in Bonnet Plume River area about 80 mi NE of Keno Hill. One mineralized bed about 25' to 40' thick was traced 4,400' along strike. Deposit considered subeconomic in 1976.
Y.T.-44	PING Suneva Res L and Newhawk GML 106 C/11 64°38'30" 133°14'	Gal and sph in breccia and as pods in dolomite of the Hadrynian Keele Fm.	1974-76: staking soil geochem, geol mapping; dd to test IP anomaly; VLF geoph.	100' x 18' at 17.8% Pb-Zn, some Ag, based on 3 trenches 1976 (NM 01/07/76)	Property in Corn Creek area of Bonnet Plume River region; no significant increase in size potential due to geoph and dd work in 1976.
Y.T.-45	DOC Amax Expl Inc (in 1975) 106 C/14 64°49' 133°03'	Gal, sph, tetrahedrite, py, marcasite, secondary smithsonite, hydrozincite and malachite as massive pods, breccia, fracture and vug fillings and along bedding planes in Upper Hadrynian dolomite.	1974-75: staked as a result of follow-up prospecting on a stream sediment geochem anomaly; geol mapping, sampling.	31' x 27' at 16.8% Zn, 47.2% Pb, 17.2 oz/t Ag across 31' of largest massive pod. (IANA EGS 1976-15, p 57)	Property at Mount Profeit, Bonnet Plume River area.
Y.T.-46	CLARK Jubilee Expls Inc 106 D/2 64°07'25" 134°57'05"	Gal, sph, minor py and cp within carbonate-filled vein faults 2' to 20' wide in qtzites and as pipe-like replacements in limestone. Host rocks are within the Grit division of Proterozoic or Cambrian age.	1967-73: discovered during a soil and silt sampling survey; staking, trenching, dd, channel sampling, gravity survey; 1,490' adit, u/g dev and dd.	(i) Above Adit Level: 142,615 ind at 6.43 oz/t Ag, 4.99% Pb, 4.58% Zn and 72,108 inf at 5.59 oz/t Ag, 4.54% Pb, 4.61% Zn (ii) Below Adit Level: 94,526 ind at 8.85 oz/t Ag, 6.51% Pb, 4.45% Zn and 51,612 inf at 10.22 oz/t Ag, 7.36% Pb, 4.92% Zn (NM 05/08/76)	Property 18 mi NE of Keno; adit 138' below surface showing; zone traced to a depth of 310'; limestone hosts the significant Ag-Pb-Zn deposits.

Y.T.-47	PAUL Falconbridge L 106 D/3 64°05'25" 135°00'35"	Mineralization scattered along fault that displaces limestone lens within Proterozoic/Cambrian Grit division; vein material from dump includes Mn oxides, siderite altered to limonite, qtz, gal, sph, cp, py, asp.	1919: ground covered by Cameron cls; adit crosscut trenching. 1974: Bullion Mtn Mng L option, geol mapping, trenching, dd.	N/A	Ag-Pb-Zn	Deposit 45 mi NE of Mayo on N slope of Mount Cameron. Six holes along 650' length of the fault cut length from 20' to 46' aver 8.38 oz/t Ag, 32.28% Pb and 0.29 oz/t Ag, 8.49% Pb respectively. Bullion Mtn, in 1979, became Jubilee Expls Inc; uncertain if the company still holds the option.
Y.T.-48	DUBLIN GULCH (GARNET SKARN ZONE) (MAR) Queenstake Res L Can Tungsten Mng Corp L (operator) 106 D/4 64°02' 135°46' (approx.)	Tungsten-bearing garnet skarn in contact with Cretaceous qtz monzonite Potato Hills stock that intrudes Yukon Group metasediments and tuffs.	1904: placer scheelite discovered. 1917-18: scheelite-bearing veins discovered. 1942: scheelite found in skarn. 1968: staking, trenching. 1978-81: geol, geochem, geoph survey, dd.	dd-ind: 6,000,000 mt 0.8% WO_3 1981 (Queenstake Res L, 1981 AR)		Dublin Gulch is about 30 mi N of Mayo. A 3,000' strike length established by widely spaced drilling.
Y.T.-49	PESO-REX Rex Silver ML 106 D/4 64°00'00" 135°54'00" (Rex vein)	Vein system in qtzite, phyllite, graphitic and chloritic schists of Proterozoic-Cambrian age; sporadic mineralization of fault gouge type, asp, py, jamesonite, boulangerite, gal, sph, tetrahedrite, qtz, siderite.	1910: staking. 1949-50: restaking, bulldozer cuts. 1961-64: stripping, trenching, EM and geochem work, dd; shallow shaft and 361' adit on Peso No 1 vein; a 900'+ adit, u/g dev and dd on Rex vein. 1972-74: surface expl, dd, geochem survey. 1977: trenching.	Proven-ind: 154,000 st 20.9 oz/t Ag, 3.7% Pb 1965 (D D Campbell 10/11/65 in Peso Silver ML, 1965 AR)		Property 26 to 28 mi N of Mayo; tonnage and grade combined for Rex vein and No 1 vein (2.5 mi WSW of Rex).
Y.T.-50	WILL Cyprus Anvil Mng Corp (in 1975) 106 D/7 64°24' 134°42'	Sph, minor gal and cp; sparry dolomite as matrix in a tectonic breccia and as fracture fillings in Helikian dolomite.	1975: showing discovered during regional geochem survey, staking, geol mapping, geochem soil sampling.	10% Cu-Pb-Zn over 20' postulated for the 2,000' length of the showing. (IANA EGS 1976-15, p 60)		Property near Mount Williams, 68 mi NE of Mayo.
Y.T.-51	DOT AND LINDA B R Res L (option 1976) 106 D/15 64°46'00" 134°37'30"	Cp in a siderite vein cutting Helikian sediments.	1935: staking. 1968: trenching, sampling, mag survey. 1970: dd-ind tonnage. 1976: Wind River ML acquired property, B R Res L option; sampling, dd 2 holes.	ind: 73,080 st at 2.51% Cu, a little Ag 1970 (NM 19/08/76)		Property in Wind River area, 60 mi N of Keno Hill.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-52	JOHOBO Federal Government 115 A/5 60°29' 137°34'	Two or more small lenses of massive bornite and cp in faults and shear zones on limb of tightly-folded anticline in Upper Triassic andesite flows.	1950-71: discovery, staking, geol mapping, dd, surface stripping; shipped 3,500 tons of high grade 1959-62; 2 adits and some u/g work, EM survey. 1976: acquired by Crown.	50,000 at unstated grade, Cu on dump 1970 (NM 05/03/70)	The property is near Kathleen Lakes in Kluane National Park. The Principal zone on the main show, investigated by u/g work, measured 47' x 7' x 50' deep.
Y.T.-53	REX Golden Gate Expls L 115 A/14 60°45'15" 137°18'35"	Cross-fibre and slip fibre chrysotile asbestos as veinlets in partly serpentinized dunite.	1953: asbestos float discovered. 1957-70: trenching, geol and mag surveys, dd, airborne mag, overburden dd, sampling. 1973: Asarco option (dd, mill test on core samples), since dropped. 1978-79: rotary and percussion drilling. 1981: dd.	c 3,500,000 at 1.5-2.0% asbestos fibre to about 200' depth 1970 (Golden Gate Expls L, VSE SMF 14/02/72, p 3)	Property 6.5 mi ESE of Haines Junction. New zone discovered by drilling 1978-79 southward from Main zone; agreement with Asarco to fund expl program.
Y.T.-54	MC GROUP Cdn Barrance Corp L (in 1975) 115 A/13 60°51'50" 137°57'13"	Two Cu-bearing shear zones in or near an elongated body of partly serpentinized peridotite intruding Lower Cretaceous sediments.	1965-69: discovered during surface expl, sampling, dd; mag and EM surveys.	120' x 16' at 2.16% Cu to 210' depth 1967 (NM 19/01/67)	Property about 20 mi SE of Kluane Lake. Dimensions based on 3 holes, open along strike and at depth.
Y.T.-55	CANALASK Peter Veraluce (in 1974) 115 F/15 61°57'25" 140°32'00"	An ultramafic complex intrudes Permian volcaniclastic unit. Po, py, sph, py, marcasite, cp, as massive bodies and stringers in cherty argillite and banded chert about 400' to the N of the peridotite.	1952-58: discovery, staking, dd, adit, winze, u/g dev and dd. 1966-68: trenching, ground mag, EM and IP surveys, surface and u/g dd. 1972-73: geol mapping, mag and EM surveys, dd to test anomalies.	(i) dd-ind: 324,600 at 1.69% Ni, a little Cu (ii) dd-ind: 20,800 at 0.84% Ni (iii) poss: 40,400 at 1.48% Ni 1976 (IANA EGS 1976-10, p 8)	Property at junction of Miles Creek and White River 60 mi NW of Kluane Lake.
Y.T.-56	WELLGREEN Hudson-Yukon Mng CL (96% held by HBM&S) 115 G/5 61°28'00" 139°31'20"	Mine at NW end of Permian-Triassic ultramafic complex on limb of syncline formed by Lower Permian sediments and mafic lava. Gabbro intrudes along contact of complex. Po, cp, pn, violarite, minor sph, stringers and disseminations in argillite country rock; massive bodies at gabbro/country rock contact; and heavily disseminated in the gabbro.	1952-56: discovery, 4,795' adit, 2 winzes to 600' below adit, surface and u/g dd. 1968-73: ground EM, dd, marketing agreement with Sumitomo of Tokyo; prod May 1972 - July 1973 with 600 tpd mill.	N/A Ni-Cu-Co-Pt	Property at Quill Creek about 20 mi W of the NW end of Kluane Lake. Preprod tonnage 626,430 at 2.04% Ni, 1.42% Cu, some Co and Pt; prod 189,211 at 2.23% Ni, 1.39% Cu, some Co and Pt; mng ceased in 1973 due to lack of continuity in the deposit; poor ground conditions, and a loss to the company of $5.8 million; mill and equipment left in place.

Y.T.-57	BROWN-McDADE Rex Silver ML 115 I/3 62°02'57" 137°07'22"	Asp, py, gal, sph, stibnite, tetrahedrite, native silver and other Ag-bearing mnrls in qtz lenses, veins and stockworks in shear zones cutting Mesozoic granitic intrusives.	1945-47: discovery, staking, dd, adit, u/g dev. 1966-67: u/g remapping, dd and a little dev. 1970: EM and mag airborne surveys. 1975-76: re-evaluation.	57,000 includes 35,000 proven and prob at 0.37 oz/t Au, 5.9 oz/t Ag, avg width 6-7' 1970 (Charter Oil CL, 1970 AR)	Property about 30 mi W of Carmacks; acquired by Rex Silver ML in 1979; economics of Brown-McDade deposit depends on utilization of mill on adjoining Mount Nansen ground acquired by Rex in 1978.
Y.T.-58	MOUNT NANSEN Rex Silver ML 115 I/3 62°03' 137°09'	Asp, py, gal, sph, stibnite, and native Au, with freibergite the most abundant Ag mnrl in qtz lenses, veins and stockworks in severely faulted Yukon Group metamorphosed rocks and Eocene feldspar porphyry plugs. Three main zones: Webber, Huestis and Cabin Creek.	1947: staked Huestis vein. 1962-69: trenching, sampling, dd, geochem sampling, 3 adits, extensive u/g dev, treated 18,000 from Webber and Huestis zones 1968-69 at 70 to 100 tpd rate. 1976: reopened mine for 10 months, milled 6,400 tons.	200,000 proven-prob at 0.33 oz/t Au, 13.0 oz/t Ag and 100,000 inf 1969 (FP Corp Serv, Charter Oil CL, 23/03/72)	Property adjoins Brown-McDade about 30 mi WSW of Carmacks. Maximum length and depth of zones are 1,200' and 600' respectively; a re-evaluation in 1970 indicated a much lower tonnage and lower Ag values; additional dd necessary to extend tonnage.
Y.T.-59	CASH Klotassin Joint Venture (in 1977) 115 I/5 62°25' 137°37'	Py, cp, mo along fractures, in qtz veins, and disseminations in Tertiary feldspar porphyry stock and the intruded metamorphic rocks.	1967-70: staked in 1969 to cover source of heavy metal anomaly, soil and stream sediments survey. 1974-77: restaking to cover aeromag anomaly on GSC map; geol mapping, ground mag, soil sampling, dd, IP survey.	2 500 m x 800 m at 0.2% Cu-Mo (GSC P 78-1A, p 284)	Property at Big Creek about 28 mi SW of Minto. One mineralized zone outlined in sediments by dd contains a geological maximum of 40 million tons (IANA, EGS 1978-9 p 71).
Y.T.-60	LAFORMA Arctic Red Res Corp 115 I/6 62°16' 137°06'	Numerous veins containing Au-bearing qtz and sulphides in shear zones cutting Jurassic granodiorite that has been intruded by Eocene porphyry dykes; most dev on G-3 zone; it has been traced over 1,500' and vertically 600', with Au values over widths to 10'.	1931-40: staking, 3 adits and u/g dev; prod from small mill during 1939-40. 1962-66: 4th adit driven, u/g dev and dd, 125-ton mill, small prod 1965-66. 1974-75: soil geochem, dd.	87,426 at 0.44 oz/t Au plus 60,000 inf 1982 (NM 03/03/83)	Property at Freegold Mtn 30 mi WNW of Carmacks; Arctic Red Res acquired property in 1980-82 from Discovery ML which retains 5% royalty interest.
Y.T.-61	TINTA HILL Silver Tusk ML Panther ML Placer Dev L 115 I/7 62°17'10" 136°59'20"	Gal, sph, minor cp, py and tetrahedrite disseminated and as massive patches in qtz-carb veins confined to 100'-wide, steeply-dipping shear zone in Triassic (?) granodiorite and contained amphibolite bands. Minor amounts of cp and py in wallrocks. Malachite and azurite in oxidized portions of veins.	1930-32: discovery, trenching, shallow shafts. 1939-40: restaking, trenching, shallow shafts and adit. 1959-60: trenching, dd. 1966-69: geochem, EM, sampling, staking, soil survey. 1973-76: dd, geochem survey. 1980-81: 342' adit; crosscutting and drifting from 2 portals. 1982: dd.	ind: 1,875 T/VF at 0.075 oz/t Au, 5.35 oz/t Ag, 4.71% Pb, 6.03% Zn, 0.37% Cu, 0.049% Cd 1975 or 843,000 dd-ind at same grade 1980 (L Sookochaff 12/06/75, for Tinta Hill ML, in VSE SMF 27/06/75; NM 04/12/80, p 5)	Property 26 mi NW of Carmacks; the zone avg 5.14' in width and has been tested to a depth of 405'; zone is open to NW and SE and to depth. In Sept 1982 Silver Tusk ML announced its intention to place the property in production.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
Y.T.-62	WILLIAMS CREEK Dawson Range Joint Venture c 1976 115 I/7 62°21' 136°42'	Cp, bornite, py as interstitial grains parallel with the foliation of gneissic zones within granodiorite of Triassic Klotassin batholith. An oxidized zone, mainly malachite and azurite extends to a depth of 800'.	1970: discovery of mineralized outcrops; staking, trenching, grid soil sampling, geol mapping, EM work, dd.	geol: 16,000,000 at 1% Cu, low Au and Ag values 1973 (IANA EGS 1977-1, p 81; NM 22/11/73)	Property is 24 mi NW of Carmacks; the deepest hole intersected mineralization at 1,400'; circa 1976 the Dawson Range Joint Venture was managed by Archer, Cathro & Assoc L.
Y.T.-63	MINTO/DEF (BOUNDARY) Silver Standard ML and Asarco (Minto); United Keno Hill ML, Falconbridge L and Cdn Superior Expl L (DEF) 115 I/11 62°37'00" 137°15'00"	The main mineralized zone is irregular, flat-lying within granodiorite of Triassic Klotassin batholith, where zones of foliation and gneissic zones contain disseminated grains of cp, bornite, py at fringes, minor hessite and native Au as inclusions in bornite; secondary mnrls occur locally at southern end of deposit. The deposit is truncated on the N by a fault.	1971-73: United Keno Hill ML staked DEF group over malachite-stained outcrops discovered during prospecting; soil geochem, EM, IP and geol surveys, trenching. 1973-76: deposit discovered by dd continues S into adjoining Minto group of Silver Standard-Asarco; geol IP, mag surveys on DEF group, and mag survey, dd on Minto group; metallurgical tests. 1976-77: feasibility studies.	7,221,000 at 1.86% Cu, 0.2 oz/t Ag, 0.015 oz/t Au; cut-off 0.6% Cu 1976 (IANA 1977-1, p 75)	The Boundary deposit lies 12 to 13 mi WNW of Minto; feasibility studies produced a workable o/p prod plan (stripping ratio of 6:1) at projected 2,000 tpd rate, but needed higher Cu prices in 1977 for prod to be economic; an increase in tonnage would make project more attractive.
Y.T.-64	MINTO (DISCOVERY) Silver Standard ML Asarco (operator) 115 I/11 Cu 1 62°36'35" 137°14'00"	Cp, bornite disseminated in gneissic zones in Triassic granodiorite. In one hole mixed oxides and sulphides persisted to 86', then sulphides to 138'.	1970-72: discovered in 1971 as a result of silt sampling; soil sampling, trenching, dd, IP, EM, mag and further geochem and dd.	N/A Cu	The Discovery area lies about 2,000' SE of Boundary deposit, 12 mi WNW of Minto. The most significant vertical hole No 2, drilled to 492' returned 0.98% Cu between 0-140' (the first 42' over 2.1% Cu).
Y.T.-65	CASINO (PATTON HILL) Casino Silver ML 115 J/10 62°44'10" 138°49'45"	A porphyry Cu-Mo deposit within the Casino complex (a Tertiary subvolcanic unit of breccia pipes, porphyry plugs and dykes intrusive into Triassic granodiorite of the Klotassin batholith.) Hypogene alteration zoning centred on the breccia pipe, with cp and mo concentrated in phyllic zone (qtz, sericite, sulphide) along inner side of pyrite halo. Supergene enriched zone through precipitation of chalcocite form up to 150 m of capping rock.	1966-67: geoph, Cu geochem anomaly, minor cp from dd and geology indicated porphyry potential in 1967. 1969-73: Brameda Res L option, geol, geochem, extensive dd, metallurgical tests, option dropped. 1973: soil sampling, EM survey, dd.	179,000,000 at 0.370% Cu, 0.039% MoS_2 1970 (Brameda Res L, 1970 AR)	Property 60 mi W of Minto; mineable tonnage (0.45% Cu equivalent) based on o/p design; waste to ore ratio is 1.67 to 1; cut-off 0.275% Cu equivalent for primary and 0.30% for supergene mineralization. In 1979, Teck Corp acquired 38% interest in Casino Silver ML.

Y.T.-66	MOSQUITO CREEK (CCL) A F Tottrup 115 N/15 63°55' 140°48'	Argentiferous galena-bearing qtz veins, some with local asp and minor chalcocite, in metamorphic rocks of the Pelly Gneiss and Nasina Group of probable Hadrynian age.	1965-66: galena float discovered, staking, trenching, mined and shipped a little high grade. 1967-69: Connaught ML acquired property; stripping, trenching, EM and geol surveys, silt and soil sampling, dd. 1974-76: small tonnage mined. 1979: Westley ML option, trenching, geoph survey.	(i) No 1 Vein: 150' x 4' at 22.8 oz/t Ag, 0.031 oz/t Au, 19.9% Pb (ii) No 4 Vein: 375' x 4' at 17.95 oz/t Ag, 0.002 oz/t Au, 8.32% Pb 1969 (IANA MIR 1969-70, Vol 1, p 33)	Property 35 mi SW of Dawson; trenching intermittently exposed No 1 vein for a length of 3,400'.
Y.T.-67	MARK GROUP North Hart Res L 116 A/10 64°38' 136°51'	Tabular pod of massive sulphide in black argillite where facies change from orange dolomite, within Helikian Gillespie Lake Gp; near basalt flows base of overlying Hadrynian Penguicula Gp. A thinly layered sulphide deposit composed of py, po, minor sph, gal, tetrahedrite, some dolomite, qtz, calcite and chert as gangue.	1966-71: discovery, staking, trenching, soil sampling, EM, dd; 2 adits, one 840' long; u/g dev and dd. 1978: geol work.	577,445 proven at 1.45% Cu, 3.65% Zn, 1.45 oz/t Ag, 0.87% Pb, 0.04 oz/t Au and 600,000 prob of similar grade 1967 (Hart River ML, 1969 AR)	Property in Hart River area 80 mi NW of Mayo. A 68-mi winter road was built in 1968-69 from the Dempster Highway.
Y.T.-68	REIN UMEX Inc 116 B/9 64°43' 138°11'	Bedded barite mineralized zone in sediments of Devonian-Mississippian Road River Fm.	1976-77: staking, soil sampling for Pb, EM. 1978: Ba anomaly from soil sampling. 1979-80: trenching, drilling, bulk samples for mill testing.	500,000 mt barite (sp.gr 4.2) 1980 (IANA Files)	Property 95 km NE of Dawson and 10 km E of Dempster Highway. Potential for additional tonnage.
Y.T.-69	CLINTON CREEK (BEAR CREEK ZONE) Cassiar Res L 116 C/7 64°26'42" 140°43'15"	The ore mined at Clinton Creek consisted of a stockwork of cross-fibre chrysotile asbestos veinlets in a body of serpentinite.	1967-78: o/p asbestos prod. Recoverable grade in 1974 was 4.37% fibre. The Bear Creek zone was dd in 1974.	poss: 7,500,000 at unstated grade Asb 1972 (Cassiar Asbestos Corp L, 1974 AR)	The Bear Creek zone is the extension of the Porcupine deposit to the SW. Drilling results of 1974 and need to mine u/g make this zone uneconomic at present.
Y.T.-70	CALEY F Caley (in 1978) 116 C/8 64°18'15" 140°12'05"	A thin ultramafic zone 1,100' long and up to 400' thick contains cross-fibre chrysotile asbestos in serpentine; magnetite is concentrated along the asbestos veinlets.	1955-64: discovery, staking, trenching, sampling, 2 adits, u/g dev, bulk sampling, mag survey, stripping, dd. 1967: airborne mag survey. 1971-72: trenching, geoph survey. 1977-78: restaking; 326,518 tons mined.	Proven: 1,000,000 of medium to high grade, group 4 milling, asbestos fibre 1966 (NM 19/01/67, p 14)	Property on Cassiar Creek about 28 mi NW of Dawson. Ore mined 1977-78 by individual operator and shipped to Clinton Creek mine for processing.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
	NORTHWEST TERRITORIES				
NWT-1	BAKER LAKE Aberford Res L (60.2%) 55 M/12, 13, 56 D/2 64°10'11" 94°33'25" 63°48'59" 95°35'09" 63°41'25" 95°46'21" (68-2, 74-1 W and 68-4 deposits)	Paleohelikian or late Aphebian sediments and lavas of Kazan Fm and Christopher Island Fm of Dubawnt Group; U occurrence related to unconformities at the base of this group. Pitchblende, uraninite and associated sulphides occur as follows: (1) fracture controlled mineralization in Dubawnt Group and basement gneisses (U-Cu-Pb-Mo-Zn-Ag-Au-Se), (2) diatreme breccia zones in basement gneisses (U-Cu-Zn), (3) impregnation and microfracture mineralization in altered ark ore peripheral to lamprophyre dykes (U-Cu-Ag).	1969-70: airborne spectrometer survey and ground follow-up; prospecting, spectrometer, geol, mag and geochem surveys, trenching, dd. 1971-72: Pan Ocean Oil L acquired "Dynamic Group" of companies; airborne, mag, geochem (soil sampling and radon). 1975-76: optioned to Cominco L; geoph and rad surveys, dd. 1977-78: expl deferred pending outcome of environmental studies. Cominco dropped option. 1979-81: geol, geoph, geochem, dd.	(a) 68-2 deposit: 1,000,000 lbs U_3O_8, 2,000,000 lbs MoS_2 1975 (b) 68-1 deposit: 200' x 150' at 0.04% U_3O_8, some Mo to 50-80' 1970 69-9 A deposit: 50' x 8' at 0.2% U_3O_8 c 1970 (c) 74-1W deposit: 500' length with extensive mineralization across important thicknesses. (d) 68-4 deposit: 1,000,000 lbs U_3O_8 to 300' 1975 (Dynamic Mng Expl L, 1975 AR; IANA MIR 1969-70, Vol 2, p 76 and EGS 1978-5, p 18)	Mng expl (1977-79) restricted by weather conditions plus regulations relating to environmental studies, native land claims, and the effects of exploration on the caribou herds. Hole KZ-10 on showing 74-1W, which intersected significant U mineralization to 600', was deepened in 1979 and intersected U zones between 596' and 1,140' (372' at 2.6 lb/t U_3O_8 including 18' at 16.2 lb/t U_3O_8). This was done to test theory that potential lies at contact with basement at 1,000-1,100' depth.
NWT-2	PISTOL BAY (MAR) Five Star Petr & ML (in 1972) 55 K/7 62°29'30" 92°46'54"	Archean Kaminak Group volcanics and sediments intruded by granitic rocks; at main zone disseminated py, po, cp, mag, ilmenite in pyroxenite sill; other zones in gabbro and granite.	1961-62: geol mapping, prospecting. 1970-72: geol, EM and mag surveys, trenching, sampling, dd.	MAR 79 Zone: 70,000 poss at 0.81% Cu, 0.08% Ni 1970 (IANA Assess Rept Doc Nos 019508 and 019947)	Pistol Bay area SW of Rankin Inlet; several possible low grade copper zones reported; up to 3,500,000 tons if there is continuity between trenches. One zone graded 2.33% Cu, 0.38% Ni, 1.13 oz/t Ag, 0.13 oz/t Au.
NWT-3	HENINGA LAKE Sulpetro Mnrls L (85%) 65 H/16 61°46'25" 96°12'10"	Sulphide zone 850 m long contains three lenses of massive py-cp-sph, po and some magnetite in felsic pyroclastics interbedded in Archean mafic to intermediate flows.	1948: shallow dd, prospecting. 1960-61: mapping, trenching, Cu-Zn soil survey with negative results. 1972-76: boulder sampling, ground EM, mag, dd. 1977-81: geoph, dd, environmental impact study.	ind: 6,000,000 at c 1.3% Cu, 9.0% Zn, 2.0 oz/t Ag, 0.03 oz/t Au 1982 (NM 25/03/82)	Heninga Lake is 80 mi NE of Cullaton Lake gold mine.

NWT-4	FERGUSON LAKE Cdn Nickel CL 65 I/15 62°52'00" 96°50'30"	Ni-bearing hornblendite body several thousand feet long in granitic gneisses; complex mineralization. Gossans contain nickeliferous pyrrhotite and a little cp.	1950: concession granted to Inco. 1951-52: expl. 1953-54: dd mineralized zone to 800' depth. 1979-80: geoph, bulk sampled.	7,300,000 at 0.8% Cu, 0.7% Ni 1954 (D Brown & T Caine, IANA Rept (in prep))	Ferguson Lake is about 140 mi W of Rankin Inlet. In 1954 it was reported that the deposit would have immediate value if it was near transportation. Optioned 1981 by Esso Mnrls Can.
NWT-5	LAC CINQUANTE DEPOSIT (YATHKYED LAKE) Aberford Res L 65 J/10 62°32' 98°38'	Unconformity-vein type uranium deposit at the margin of Helikian Dubawnt Group sediments and the underlying Archean basement metavolcanics.	1975-77: airborne radiometric, magnetic and VLF-EM survey, staking; ground scint, mag and EM surveys and geochem till sampling. 1978-82: geol, geoph, geochem surveys, dd.	11,600,000 lb U_3O_8 (NM 14/10/82)	Former Pan Ocean Oil L property 225 km SW of Baker Lake. Company acquired by Aberford in 1982.
NWT-6	LONE GULL DEPOSIT (SISSONS LAKE) Urangesellschaft Can L 66 A/5 64°17' 97°36'	Unconformity related vein type pitchblende deposits (3) in sandstone and underlying basement granite along a fault zone.	1978-80: discovery, dd, biological study.	37,000,000 lbs contained U_3O_8 (avg grade 0.4% U_3O_8) 1980 (H Fuchs et al, Paper No 149, CIM Ann Mtg, 04/82)	Property about 45 mi W of Baker Lake. Best hole returned 0.82% U_3O_8 over 121', plus 1.06% U_3O_8 over 104'; deepest intersection less than 300' below surface; work depends on the weather federal government regulations and environmental conciderations. Amenable to o/p mng.
NWT-7	AMER LAKE Canterra Energy L 66 H/10 65°32'48" 96°45'00"	Pitchblende and uranophane in Aphebian (?) arkose/siltstone unit along faults and fractures, or in scattered lenses.	1969-70: acquired by Aquitaine, airborne and ground rad surveys, dd. 1977: optioned to Cominco L.	N/A U	Amer Lake is located about 90 mi NE of Baker Lake.
NWT-8	VENUS Cominco L 68 H/7 75°19'25" 97°08'30"	Gal and sph as vugs, disseminations and massive veins up to 3' wide in dolomite of Ordovician Thumb Mtn Fm.	1971-72: discovery, geol mapping, geophysics, geochem, dd.	400'-500' x 60'-80' at 30% Pb-Zn 1972 (IANA Assess Rept Doc No 080016, 1971-72)	Deposit located on Truro Is about 6 mi SW of Polaris deposit on Little Cornwallis Is.
NWT-9	ECLIPSE Cominco L 68 H/9 75°32'30" 96°09'	Sph, gal, py, considerable smithsonite and minor Fe oxides as open space filling in a calcite gangue between breccia fragments in brecciated dolomite and limestone.	1960-72: discovered by Bankeno ML, sampling, dd, geol mapping, soil geochem survey, gravity survey, several anomalies outlined.	(i) West Breccia zone: 1,000,000 at 12.43% Zn, 2.18% Pb to 50' (ii) East Breccia zone: 270,000 at 3.60% Zn, 0.05% Pb plus 265,000 at 3.45% Zn, 2.19% Pb 1969 (IANA MIR 1969-70, Vol 2, p 166; Bankeno ML, 1972 AR)	Deposit on eastern lobe of Little Cornwallis Is.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-10	O'CONNOR LAKE Byrne & Sons (c 1977) 75 E/5 61°19'36" 111°47'30"	Two veins in amphibolite, one of which contains gal, sph, minor py and cp in fractures in qtz-carb gangue.	1948-52: trenching, dd, shaft to 180', lateral work on 150 level, shipped 1,500 tons cobbed ore to Vancouver in 1952. 1966: restaking.	ind: 67,950 at 10% Pb-Zn to 250' plus 50 T/VF at 18% Pb-Zn in a second vein. (Amer Yellowknife ML, 1953 AR; NM 04/09/52)	Property 115 mi SE of Yellowknife.
NWT-11	MACINNIS LAKE (DASSAULT DEPOSIT) Scurry Rainbow Oil L (in 1968) 75 E/8 61°20'53" 110°14'10"	Narrow veins and disseminations of pitchblende with associated chlorite, calcite, hematite, qtz, py, cp and gal in Aphebian Nonacho sediments.	1955: prospecting, scint survey, dd. 1968: geol and scint work.	27 000 mt at 0.17% U 1956 (GSC P 80-18, p 114)	Deposit on W side of MacInnis Lake, 150 mi SE of Yellowknife. A narrow high grade zone more than 100' long, up to 6' wide tested to depth of 150'; highest value in dd core was 0.84% U_3O_8 across 2'.
NWT-12	SACHOWIA LAKE (GOGO) Copper Pass ML (in 1973) 75 L/15 62°24'40" 111°51'30"	Lens of massive niccolite, some cobaltite and calcite in felsite breccia in fracture zone cutting Archean metavolcanics and granite dykes, near diabase dyke.	1940, 1950: staking. 1957: dd determined tonnage. 1965, 1969: restaking, several shipments of bagged niccolite from open cut. 1970: 3 ddhs.	ind: 5,000 at unstated Ni-Co-Bi grade c 1969 (GSC P 70-70, p 19, 1972)	Some material removed graded 27.5 to 37% Ni. The 1970 dd failed to prove depth or continuity.
NWT-13	KENNEDY LAKE Initiative Expls Inc 75 M/2 63°01'57" 110°56'57" ("88" zone)	The "88" zone is a generally conformable lens in qtzite and garnet-bearing qtz-biotite gneiss localized by folds and faults at the upper part of a felsic volcanic sequence and overlain by limestone and tuff zone. Massive sulphides consist of sph, po, py, plus minor gal, cp, mag and tetrahedrite in qtz gangue. At Kennedy Lake Copper Deposit thin stringers of cp and po occur in fractures in a metamorphosed alteration zone.	1948-67: discovery ("88" zone), stripping, trenching, dd, geol mapping, geoph surveys includes ground EM. 1975: claims covering 88 deposit taken to lease.	(i) "88" zone: 970,000 ind at 9.5% Zn, 0.7% Pb, 3.4 oz/t Ag, 2 lb/t Cd to 650' (ii) Kennedy Lake: 43,000 ind at 7.3% Zn, 1.1% Pb, 4 oz/t Ag or 70,000 at 6% Zn, 1% Pb, 5 oz/t Ag to 250' (iii) Kennedy Lake Copper: 612,000 at 1.12% Cu or 1,500,000 at 0.62% Cu with Ag values to 400' c 1974 (GSC Open File 234, 1974; NM 10/01/74; CMH 1969-70, p 177)	Property 10 mi N of the East Arm of Great Slave Lake. No report of activity on the property since 1969.
NWT-14	SUSU LAKE Indian Mtn Mtl ML (in 1966) 75 M/2 63°00'40" 110°47'30"	Cp, bornite, some qtz, calcite and ferrodolomite in a sheared and brecciated zone in rhyolite of the Archean Yellowknife Group.	1966: staking, trenching, 9 ddhs.	ind: 142,500 at 0.95% Cu to 175' c 1967 (FP Surv Ms 1968, p 111)	Property 5.5 mi ESE of Kennedy Lake.

NWT-15	MacKAY LAKE Noranda ML 75 M/14 63°53' 111°05'	Massive sulphide deposit (sph, cp) in acid volcanics.	N/A	N/A	Zn-Cu	A long thin deposit with fair grade on peninsula in MacKay Lake about 10 mi S of Tundra Mine.
NWT-16	SALMITA Giant Yellowknife ML 76 D/3 64°04'30" 111°04'28" PRODUCTION PLANNED AUGUST 1983	Gold-bearing qtz veins in sediments or along contact with volcanic rocks of Yellowknife Group, contain po, sap, scheelite, ferberite, gal, sph, cp.	1945-52: discovery, surface work, dd, bulk sampling, 100 tpd gravity mill and buildings partly constructed. 1974-76: Giant Yellowknife ML option, 1,050' decline and surface dd. 1980: economic reassessment. 1981-82: u/g dev on 2 m wide vein; decline extended to 455 m, dd.	154,000 at 0.817 oz/t Au 1982 (NM 25/11/82, p B 24)		Property at E side of Matthew Lake; to rehabilitate the 160 tpd mill at Tundra mine about 6 km from Salmita.
NWT-17	SAUCER LAKE (TK) Amer Chromium L Savanna Res L 76 D/3 64°00'37" 111°09'53"	Au, sap, py, po, scheelite associated with qtz veins at or near the contact of metavolcanics and metasediments of the Courageous Lake volcanic belt within the Archean Yellowknife Supergroup.	1945-46: discovery, trenching. 1950: dd. 1958: dd, mapping, trenching, sampling. 1973: trenching, EM and mag survey. 1976: EM survey and soil sampling.	(i) Saucer Lake South Vein: 300' x 13.5' at 0.08 oz/t Au (ii) Perreon Vein: 700' x 6' at 0.16 oz/t Au 1973 (G G Addie 13/03/74 for Perry River Nickel ML in VSE SMF 17/07/74)		Saucer Lake is 1½ mi S of Tundra mine; trench sampled near south shore of lake assayed 0.12 oz/t Au and 0.17 oz/t Ag over 19'.
NWT-18	TUNDRA MINE Giant Yellowknife ML 76 D/3 64°02'12" 111°11'36"	Gold-bearing qtz veins lie along or adjacent to a conformable contact between sedimentary and volcanic rocks of the Yellowknife Group or entirely within volcanic rocks. Small amount of sap, po, gal, scheelite and ferberite.	1945-52: discovery, airstrip, dd, stripping, trenching, shaft collared. 1957-68: shaft to 1,250', 8 levels; prod 104,474 oz Au during 1964-68. 1973-74: geol study, geoph and geochem surveys.	5,000 tons of broken low grade (0.5 oz/t Au) plus many unbroken tons of similar low grade (Tundra GML, 1968 AR, and prospectus 25/10/79)		Property at S end of Matthews Lake, about 150 mi NE of Yellowknife. Giant Yellowknife bought Tundra's 110 tpd mill and property to compliment Salmita.
NWT-19	JAX LAKE Amer Chromium L 76 D/6 64°18'25" 111°24'45" (#1 Zone)	Gold-bearing qtz vein or siliceous zones, generally in sheared amphibolite at or near the metavolcanic-metasedimentary contact within the Courageous Lake volcanic belt. Small amount of py, sap, gal.	1945-46: discovery, trenching, dd. 1960-61: dd, mapping and sampling. 1973-75: mag, EM and geochem surveys, trenching and mapping. 1978: dd, geochem and geoph surveys. 1979-80: dd.	(i) No 1 Zone: (a) 250' x 2.9' at 0.4 oz/t Au; (b) 200' x 3.3' at 0.24 oz/t Au (ii) No 2 Zone: 190' x 3.0' at 1.6 oz/t Au (cut) (iii) No 5 Zone: 115' x 1.7' at 1.98 oz/t Au 1960 (Ace Parker 28/05/80 for Perry River Nickel ML in VSE SMF 18/09/80)		Property N of Courageous Lake about 156 mi NE of Yellowknife. First hole in 1980, intersected 26.7' at 0.21 oz/t Au between 161.1' and 187.8' in hole.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES		REMARKS
NWT-20	GONDOR Norsemines Expl CL (60%) Kidd Creek ML (40%) 76 E/12 65°33'43" 111°48'00"	L-shaped, concordant, massive sulphide deposit plunging ENE in felsic volcanics; py, sph in qtz-rich gangue and minor cp, gal.	1976-77: staked by Norsemines following regional airborne survey (EM, mag). 1977-80: prospecting, ground geoph. 1981: optioned by Kidd Creek, VLF, HLEM, mag, gravity; massive sulphides discovered by dd the conductor. 1982: dd.	N/A	Zn-Pb-Ag	Property in Olga Lake volcanic belt 21 mi SW of Contwoyto L. Deposit tested by dd over a strike length of 900 m and up to 350 m down dip. Values of 3.5 to 5.3% Zn, 0.7 to 1.7 oz/t Ag over width of 20 to 47' in 3 holes.
NWT-21	HACKETT RIVER Bathurst Norsemines L (Cominco L option) 76 F/16 65°55'55" 108°27'30" (Cleaver zone)	Massive to disseminated py, po, sph, gal, mag and locally gahnite (zinc spinel) in a band of cherty tuffite, chert and cherty rhyolite, near the top of a sequence of intermediate to felsic volcanics, overlying metasediments of the Hackett River gneiss dome.	1956: discovery, trenching, geoph work. 1966-75: geol mapping, airborne and ground EM and mag surveys, gravity, soil sampling, dd (optioned by Cominco in 1970). 1976: relogging and study of dd core. 1980-81: dd.	(i) "A" zone: 4 to 5,000,000 at 8.5% Zn, 1.4% Pb, 7 oz/t Ag, 0.25% Cu, 0.05 oz/t Au to 600'. (ii) "Cleaver" zone: 4,000,000 at 7.07% Zn, 1.04% Pb, 5.34 oz/t Ag, 0.46% Cu, 0.014 oz/t Au (iii) "Cleaver Low Grade": 4,000,000 at 1.08% Zn, 0.84% Pb, 0.97 oz/t Ag, 0.48% Cu (iv) "Boot zone": 5,000,000 at 4.97% Zn, 0.99% Pb, 5.86 oz/t Ag, 0.29% Cu, 0.014 oz/t Au plus 2,000,000 tons of lower grade 1974 (A E Nevin 03/08/75 for Bathurst Norsemines L, in VSE SMF 12/08/75)		Tonnage figures are drill indicated-positive; the total indicated on the property is 21 million tons at 0.013 oz/t Au, 4.37 oz/t Ag, 0.41% Cu, 0.75% Pb, 4.98% Zn (NM 21/02/80, p 4). Metallurgical testing and transportation studies in early 1975, since then Cominco must spend $200,000 each year to maintain option. Development of property hampered by lack of infrastructure.
NWT-22	MUSK GROUP Norsemines Expl CL 76 G/5 65°19'30" 107°32'	Volcanogenic massive sulphide deposit lying near the top of the volcanic sequence of the Hackett River belt.		340,000 mt at 10% Zn, 1.4% Pb, 1.2% Cu, 343 g/t Ag 1981 (W A Gibbins, written commun, 1982)		
NWT-23	YAVA Westmin Res L (45%) Conwest Expl CL (45%) 76 G/12 65°36'10" 107°56'00"	Both massive and stringer mineralization (sph) in acid volcanics on the opposite limb of the syncline from the Hackett River property. Massive zone is 500' x 30' to 110' thick to depth of 272'+. Massive sulphides grade 26% Zn, 10% Ag over thickness of 1.5' to 3.5'.	1972-73: geochem anomaly found and studied by GSC. 1974-75: surface expl, geol, geoph and geochem surveys, dd.	dd-ind: 1,250,000 at unstated Zn-Ag-Cu-Au grade to 500' 1976 (Len Selliken, Geoscience Forum, Yellowknife, Dec/76)		Open to depth in two sections one of which assayed 0.6% Cu, 1.7% Pb, 5% Zn, 4 oz/t Ag, 0.01 oz/t Au over 17'.

NWT-24	HIGH LAKE Kennecrtic Explo L 76 M/7 67°22'45" 110°51'19"	Sulphide lenses (py, po, cp, sph, gal), within extensive alteration zone, in felsic and intermediate pyroclastics in a belt of metavolcanics of Yellowknife Supergroup. The mineralization is cut by a diabase dyke and contains two main zones about 2,000' apart	1956-59: mapping, airborne EM and mag, plus ground EM, dd.	5,206,856 at 3.53% Cu, 2.46% Zn, 0.023 oz/t Au, minor Ag and Pb 1967 (NM 30/03/67, p 5)	Property 30 mi S of Coronation Gulf, E of Bathurst Inlet.
NWT-25	CORONATION GULF Canuc Res Inc 76 M/11 67°41'11" 111°22'28"	Rum Lake greenstone belt cut by felsic intrusives and diabase dykes. Gold associated with py, gal, cp and hematite in N to NE-striking qtz veins in syno-diorite intrusives. Gold-bearing veins traced for over a mi on the property.	1963-66: discovery, trenching, sampling, dd. 1973-74: dd. 1975: optioned by Giant Yellowknife ML, dd. 1976-77: dd, follow-up geoph survey, Giant Yellowknife dropped option. 1979: Coronation G Explo option; EM and mag survey, dd, sampling mostly on North vein. 1980-81: transit survey, sampling, dd.	No 1 Vein: 250' x 4' at 0.69 oz/t Au 1965 No 3 Vein: 1,240' x 3.7' at 0.64 oz/t Au 1965 East Boundary Vein: (i) 350' x 3.44' at 3.7 oz/t Au, 8.74 oz/t Ag; (ii) 400' x 4.7' at 0.85 oz/t Au 1974 North Vein: 880,000 at 0.285 oz/t across 14.4' 1982 (Canuc Res, Interim 3rd Quarter Rept, 1982) Sidewalk Vein: 4,000' x up to 40', erratic Au values 1976 (E O Chisholm 30/01/74, for Arcadia Explo L in VSE SMF 04/03/74; GSC P 66-52, p 39; NM 20/03/75 and 25/10/79)	Coronation Gulf is located on the Arctic Coast 380 mi N of Yellowknife. The No 3 zone dimensions are from a composite of 5 trenched zones along a strike length of 4,000'.
NWT-26	GREAT SLAVE REEF Westmin Res L (40%) Du Pont of Can Expl L (50%) Philipp Bros (Can) L (10%) 85 B/11 60°44'15" 115°03'15" (X 25 zone)	Zn-Pb sulphides in Devonian Presqu'ile dolomite.	1975-79: grid dd along favourable trend led to discovery; geoph (includes IP) and geochem, fill-in dd and water pumping tests in 1979 to determine cost of dewatering x-25 zone. 1980-82: dd; engineering studies.	(i) X-25 zone: 3,800,000 ind at 9.1% Zn, 3.3% Pb 1977 (ii) V 46 zone: 600,000 ind at 8% Pb-Zn 1978 (iii) R 190 zone: 1,400,000 prob at 11.9% Zn and 6.2% Pb 1978 or 2,300,000 at 20% Pb-Zn for the three zones combined 1983 (Western ML, 1978 AR; NM 03/03/83, p 822)	Seven deposits contain 8.0 million tons geological reserves at 10.3% Pb-Zn (Du Pont 1980 AR). Adjoins W of Pine Point ML. Mineralization in X-25 zone occurs between 337' and [illegible]. Drilling to continue to evaluate potential
NWT-27	AA GROUP Pine Point ML 85 B/15 60°52'10" 114°49'20"	Devonian Presqu'ile dolomite hosts Zn-Pb sulphide deposits in Pine Point area.	1966-69: gravity and IP surveys, dd of anomaly.	ind: 338,125 at 6% Zn, 1.736% Pb 1970 (Yellowknife Base Mtls L 20/05/70 prospectus)	

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-28	BEST BET Volker Alborn 85 I/1 62°13'42" 112°18'05"	Pegmatite sill and dykes in nodular qtz-biotite schists (metasediments) of Archean Yellowknife supergroup; pegmatite contains amblygonite, spodumene, lithiophilite, tantalite-columbite, cassiterite and beryl.	1944-48: staking, open cuts, 1.9 tons treated in small pilot plant at Moose property. 1953-54: mng from open cuts, dd; milling at Moose property. 1975: staking, expl for Cdn Superior Expl L in area.	Best Bet: 250,000 ind at unstated LiO_2 grade to 100' 1954 (IANA EGS 1978-6, p 112) Note: surface geol evidence in 1976 suggests possible 43,000 tons to 100' (IANA Assess File 080279)	The Moose group is 4.5 mi SE of Best Bet on N side of Hearne Channel. Tonnage at Moose N/A, concentrates assayed Cb, Ta, Sn. Plant destroyed by fire in 1955.
NWT-29	ELK Hemisphere Dev Corp 85 I/1 62°12' 112°15'	Lithium-bearing pegmatites of the region occur in metamorphic cureoles developed in sediments of the Archean Yellowknife Supergroup.	1979: Hemisphere Dev Corp acquired 50% interest in Elk No 1 claim.	700,000 mt at 7.44% Li_2O, 4-5 lb/t Ta to 200' 1980 (NM 05/06/80, p 8)	Property near Hearne Channel about 72 mi SE of Yellowknife; to prepare feasibility report.
NWT-30	BUCKHAM LAKE Cdn Superior Expl L (in 1976) 85 I/2 62°13' 112°42' (Mut Pegmatite)	Lithium occurs in small spodumene crystals evenly distributed in pegatite dykes within nodular qtz-biotite schist derived from Archean sediments of the Yellowknife Supergroup.	1975: staking, mapping, sampling, evaluation.	(i) Bin: 990 T/VF at 15%-30% spodumene (ii) Lens: 102,000 at 1.97% Li_2O to 100' (iii) Mut: 300' x 15' at 25%-35% spodumene or 250 T/VF 1976 (IANA Assess Rept Doc Nos 080277, 080278 and 080280)	On SE side of SW arm of Buckham Lake, about 60 mi SE of Yellowknife.
NWT-31	THOR Highwood Res L 85 I/2 62°06'50" 112°35'35"	Five deposits of tantalum, columbium, rare earths, thorium and uranium occur in the core of an alkaline complex in a zone of fluorite-albite veins. Mineralization includes ixiolite, uranothorite, xenotime, phenakite. The zone cuts syenite and granite of the Aphebian Blachford Lake-alkaline plutonic complex.	1970: staking, sampling. 1977-79: radon, mag, and airborne spectrometer surveys, prospecting, geol mapping, trenching, dd. 1980-81: dd, collected bulk sample. 1982: beneficiation tests.	(i) Lake Zone: 70,000,000 dd-ind at 0.6 lb/t Ta_2O_5, 8 lb/t Cb_2O_5 plus rare earths 1980 (ii) T Zone: 1,300,000 inf at 11 lb/t Cb_2O_5 plus 6-8,000,000 prob 1979 (iii) S Zone: 75,000 inf at 30 lb/t Cb_2O_5, 1 lb/t U_3O_8 plus 75,000 prob 1979 (Highwood Res L, 1980 AR)	Located on north side of Great Slave L, 65 mi SE of Yellowknife. Placer Dev L held option in 1980-81.
NWT-32	BIG (MURPHY) Cdn Superior Expl L (in 1976) 85 I/5, 12 62°30' 113°59'	Zone of spodumene-bearing pegmatite dykes in nodular qtz-biotite schists of the Archean Yellowknife Group.	1955: trenching, dd. 1975-76: mapping and sampling.	inf: 7,888,000 at 1.47% Li_2O to a projected 500' 1977 (Energy, Vol 3, p 406, 1978)	Property lies 13 mi ENE of Yellowknife.
NWT-33	PANCHO J.R. Woolgat (in 1957) 85 I/5 62°29' 113°33'	Spodumene-bearing pegmatite dykes cut Archean qtz-mica schist.	1957: prospecting, mapping, staking.	Main Dyke: 1,500' x 20' at 15 to 20% spodumene Dyke No. 2: 2,000' x 1 to 5' at 20% spodumene 1957 (IANA Assess Rept Doc No 017423)	Property 25 mi east of Yellowknife.

NWT-34	ANN Magnus Hldge L (c 1961) 85 I/6 62°28' 113°25'25"	Spodumene-bearing pegmatite dyke avg 40' wide cutting knotted qtz-mica schist (Archean metasediments of Yellowknife Group).	1955-56: staking, trenching, sampling, dd.	poss: 3,335,600 at 1.92% Li_2O to a projected 500' (Energy, Vol 3, 1977, p 406, 1978)	Property about 30 mi E of Yellowknife.
NWT-35	JAKE Ashawk Res Corp 85 I/6 62°25.4' 113°21.7'	In this region spodumene and amblygonite occur in pegmatite dykes intruding Archean granodiorite.	1962: staking. 1981: expl work.	poss: 2,000,000 at 1.2% Li_2O 1981 (NM 24/12/81, p 6)	At north end of Harding L, about 52 km SE of Yellowknife.
NWT-36	PAINT Hemisphere Dev Corp 85 I/6 62°24'30" 113°24'30"	Spodumene and amblygonite in NW-striking pegmatite dykes, the largest of which has been traced 2,400' in Archean granodiorite.	1957: aerial reconnaissance, geol mapping, prospecting and discovery of Li-bearing dykes. 1979: geol mapping, airphoto studies, geoph surveys and flotation tests on a bulk sample.	ind: 2,744,162 at 1.75% Li_2O to 500 m 1980 (NM 05/06/80, p 8)	On N shore of Harding Lake about 32 mi SE of Yellowknife. Based on 1978-80 engineering reports, feasibility study planned to determine cost of placing property into production.
NWT-37	AL GROUP Gateway Ventures L (in 1970) 85 I/7 62°22'25" 112°48'18"	Auriferous qtz veins with sparse scheelite in sheared and altered greywackes and slates of the Burwash Fm.	1945: staking, trenching. 1958-59: dd, 128' inclined shaft. 1969: channel sampling, dd.	230' x 1' at 3.75 oz/t Au, minor WO_3 1958 (GSC P 70-17, p 52)	Property 50 mi E of Yellowknife; dd in 1969 revealed nothing of economic interest.
NWT-38	BULLMOOSE LAKE (T.A.) Terra ML 85 I/7 62°20'40" 112°44'50"	Auriferous qtz veins with a little scheelite in nodular schistose metagreywacke of Yellowknife Supergroup.	1939-41: staking, trenching, dd, shallow inclined shaft, small mill. 1962-75: trenching, sampling, dd, 1,300' decline. 1975-76: u/g dev, test stoping, stockpile bulk sampling. 1981: dd.	dd-ind: 25,000 at 0.34 oz/t Au to 210' 1981 (Terra Mng & Expl L, 1981 AR)	Property 52 mi ESE of Yellowknife. To end 1976, total of 1,660' u/g dev completed in driving decline tunnel in No 4 vein at 220' level; stockpile of 3,000 at 0.60 oz/t Au. U/g expl above and below the 200' level planned for 1983.
NWT-39	DICK De Steffany Tungsten CML (in 1941) 85 I/7 62°29'30" 112°57'	Scheelite-bearing qtz veins in Yellowknife Group sediments.	1940-41: staking, prospecting, trenching.	(i) Vein 4: 110' x 1.5' at 0.3% WO_3 (ii) Vein 17: 27' x 6" at 0.5% WO_3 1941 (GSC Mem 261, p 124, 1951)	Deposit NW of N end of Gilmour Lake. De Steffany Tungsten defunct by 1956.
NWT-40	HID Cdn Superior Expl L (in 1976) 85 I/7 62°18' 112°48'	A 10' to 20' wide spodumene-bearing pegmatite dyke in nodular qtz-biotite schist derived from sediments of the Yellowknife Supergroup.	1946: trenching by Frobisher Expl CL. 1975: restaking, sampling and evaluation.	500 T/VF at 20-25% spodumene 1976 (IANA Assess Rept Doc No 080275, 1976)	Hid 1 claim lies about 4½ mi W of Buckham Lake. Two samples averaged 1.56% Li_2O.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-41	GILMOUR LAKE Arctic Circle Synd (in 1941) 85 I/7 62°28'50" 112°49'20" (Vein 109)	Scheelite-bearing qtz veins in Archean sediments of Yellowknife Group.	1941: staking, trenching, sampling, small tonnage mined.	(i) Vein 57: 56' x 0.5' at 0.5% WO_3 (ii) Vein 109: 155' x 2.3' at 0.15% WO_3 (iii) Vein 141: 34' x 1.3' at 1.1% WO_3 1941 (GSC Mem 261, pp 75-76, 1951)	In Gilmour Lake district more than 100 qtz veins containing scheelite are known but none were large or rich enough, in 1941, to be mined profitably for tungsten.
NWT-42	JUNE Strike Lake Res L (in 1977) 85 I/7 62°25'07" 112°51'08"	Gold-bearing qtz stringers or stockworks in metasediments of Archean Yellowknife Supergroup.	1939-41: staking, dd. 1955: dd. 1977: ore excavated and milled; over 100 oz Au recovered.	c 2,000 at 2 oz/t Au 1976 (IANA EGS 1976-9, p 82)	Property about 78 mi E of Yellowknife. Two mineralized veins (a) 18.2 m x 1.5 m and (b) 30.5 m x 47.7 cms.
NWT-43	McDONALD DYKE (MAC 1) Cdn Superior Expl L (in 1976) 85 I/7 62°18' 112°48'	Pegmatite body conformable with bedding of nodular greywacke of Yellowknife Group, containing spodumene, beryl, amblygonite, lithiophilite plus tantalite-columbite.	1940-49: discovery, staking, prospecting, sampling. 1957: held by Beauport Hldgs L as Lit 3 claim. 1975: staking, expl, sampling, evaluation.	(i) 750 T/VF at 27% spodumene (ii) 18 sq ft at 1.3% tantalite-columbite 1944 (GSC P 44-12, p 15)	Deposit 3½ mi W of Buckham Lake.
NWT-44	BEAULIEU (NORMA) Treasure Is Res Corp (option) 85 I/7 62°24'46" 112°54'22"	Gold, minor sulphides, a little scheelite in qtz vein following slate bend in contorted greywacke.	1939: staking; 15 tons treated in Gibson mill. 1945-47: dd, shaft to 320', 2 levels on "A" zone. 1947-48: milled 450 tons.	(i) "A" zone: 1,200 ind at 0.65 oz/t Au to 225' 1947 (ii) Scheelite zone: 22,400 at 0.2% WO_3, avg width 0.7' 1941 (GSC EGS 17, p 138, 1959; NM 22/01/48, p 24)	Property about 45 mi E of Yellowknife. An indicated 105,000 tons at about 1 oz/t Au above 300'-level was reported by Beaulieu Yellowknife ML in 1947. (GSC Mem 261, p 79, 1951).
NWT-45	RUTH Cominco L (in 1973) 85 I/7 62°27'45" 112°34'15"	Auriferous qtz veins with a little scheelite in Archean greywacke and slate of Yellowknife Supergroup (asp, py, scheelite, visible gold in No 2 vein).	1940-42: staking, trenching, inclined shaft to 230', 2 levels, 25 ton mill, recovered a little Au and Ag from No 2 vein. 1959: airstrip, cat road, rehabilitated mine, a little Au recovered. 1973: dd on No 2 vein.	(i) No 2 vein: 2,447 ind at 2.22 oz/t Au, a little WO_3 1973 (ii) No 1 vein: 50' x 1.4' at 0.50 oz/t Au (cut), a little WO_3 (iii) No 3 vein: 120' x 1.5' at 0.30 oz/t Au, a little WO_3 c 1942 (IANA EGS 1976-9, p 84; GSC Mem 261, p 252-3, 1951)	On No 2 vein Au-bearing intersections were from 150'-260' depth; 2,531 t containing 4,963 oz Au remain in the vein and Hidden Lake GML obtained a yearly working license from Cominco (Hidden Lake, VSE SMF 48-83).

NWT-46	THOR (ECHO) Cdn Superior Expl L (in 1975) 85 I/8 62°25'50" 112°10'50"	A number of large spodumene-bearing dykes cut nodular qtz-biotite schist derived from Archean supergroup sediments near granodiorite batholith. Dykes range from 10 to 100' in width with total length in excess of 9,000'.	1955: trenching, sampling, dd. 1958: dd, bulk sampling. 1960: examined for Be content. 1975: restaking, mapping, sampling, metallurgical flotation tests.	2,100,000 at 1.50% Li_2O in 12 dykes 1955 or 9,205,000 poss to a projected 500' 1977 (IANA Assess Rept Doc No 017319, 1955; Energy, Vol 3, p 406, 1978)	Property 12 mi N of Great Slave Lake and 70 mi E of Yellowknife. The top 100' of the dykes has open pit potential.
NWT-47	STORM J Irwin (in 1975) 85 I/10 62°30'15" 112°56'15"	Auriferous qtz veins with a little scheelite in sediments of the Yellowknife Supergroup of Archean age.	1940-42: staking; small mill treated 11 tons. 1968-75: staking; trenching on Au-bearing vein (Starbird ML option in 1975).	(i) 15' x 2.7' at 2.5% WO_3 1941 (ii) 106' x 25" at 0.83 oz/t Au 1975 (GSC Mem 261, p 272, 1951; IANA EGS 1978-5, p 85-86)	Property about 45 mi E of Yellowknife. The gold-bearing vein is discontinuous. A sample from a 20" section of vein assayed 3.86 oz/t Au.
NWT-48	TURNBACK LAKE Highwood Res L 85 I/10 62°43'45" 112°38'40" (XL zone)	Mineralization (massive to disseminated po, sph, cp, py, gal, some Ag and MoS_2) forms long narrow conductive zones parallel with the bedding of Yellowknife Group metasediments. (At XL showing two en échelon lenses form zone 1,900' long terminated by pegmatite and granite).	1937-38: discovery, dd, trenching. 1951-55: geol mapping, sampling, mag and EM surveys, dd. 1960: EM survey, dd. 1970: airborne and ground EM, geol mapping, trenching.	(i) XL Zone: 2,000 T/VF at 4 oz/t Ag, 0.8% Cu, 4.7% Zn, 1% Pb c 1970 (Highwood Res L, 1980 AR) (ii) OK Zone: 30' x 5.3' at 0.01 oz/t Au, 18.8 oz/t Ag, trace Cu, 8.4% Pb, 13.7% Zn c 1974 (IANA EGS 1978-6, p 119, and EGS 1977-5, p 143)	
NWT-49	HIDDEN LAKE (FI & KI) Cdn Superior Expl L (in 1975) 85 I/11 62°35' 113°29'30" (FI Main Dyke)	Several large spodumene-bearing pegmatite dykes cut Archean nodular qtz-biotite schists. Spodumene comprises 15 to 25% of the dykes. The FI Main Dyke with aver width of 25' has been traced for 6,600'.	1955-56: staking, trenching, sampling, and 848' dd. 1975: staking, mapping and expl by Cdn Superior Expl L.	(i) FI Main Dyke: 7,700,000 at 1.1% Li_2O if projected to 500' (ii) FI Southwest Dyke: 5,300,000 at 1.37% Li_2O projected to 500' (iii) KI Dyke: 430,000 at 1.4% Li_2O to 100' 1976 or 2,812,000 poss to a projected 500' 1967 (IANA Assess Repts, Doc Nos 080274 and 080282, 1976; Energy Vol 3, p 406, 1978)	The dykes lies E and NE of the N end of Kidden Lake, from 1 to 2 mi south of the Thompson-Lundmark mine. Tonnage and grade estimates based on mapping, sampling, crystal counts and visual observations.
NWT-50	JIM-BEN (GREG) Cdn Superior Expl L (in 1976) 85 I/11 62°33' 113°29'	Spodumene-bearing pegmatite dykes cut nodular qtz-biotite schist of the Yellowknife Group.	1975-76: mapping, sampling.	inf: 4,205,000 at 1.24% Li_2O to a projected 500' 1977 (Energy, Vol 3, p 406, 1978)	Property lies E of the south end of Hidden Lake.
NWT-51	THOMPSON-LUNDMARK Thompson-Lundmark GML 85 I/11 62°36'45" 113°28'15"	Several gold-bearing qtz veins (avg 1.5-2') cut schists and hornfels of Yellowknife Group.	1938-47: staking, trenching, dd, 3 shafts and winze, six levels; 125 tpd mill. Prod 70,339 oz Au, 13,782 oz Ag from 133,969 milled in 1941-49.	prob: considerable tonnage at 0.40 oz/t Au remains in place 1949 (CMJ April 1974, p 44)	Optioned in 1982 to Ardic Expl and Dev Inc.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-52	PRELUDE LAKE E Haight (in 1960) 85 I/12 62°38' 113°57'	Beryl found in a large number of pegmatites in area, also minor lithiophilite and tantalite-columbite.	1937: staking, prospecting. 1960: staking, examination with berylometer.	(i) 80' x 8.5' at 0.34% BeO (ii) 50' x 5' at 2% BeO (iii) 110' x 5' at 0.5% BeO (iv) 200' x 10' at 0.3% BeO (GSC P 44-12, p 23, 1944)	Prelude Lake is 17 mi NE of Yellowknife.
NWT-53	BLAISDELL LAKE (BILL) Beauport Investors L 85 I/13 62°48'37" 113°34'54"	Pegmatite dykes containing beryl cut a granite plug and associated metasediments of Archean Yellowknife Group.	1934: discovery. 1943: re-examined. 1960-61: staking, trenching, shallow dd.	(i) Van Dyke: 146,000 at 0.30% BeO (ii) B E Dyke: 60,000 at 0.50% BeO 1961 (NM 14/08/61)	
NWT-54	VO (COTA) Cdn Superior Expl L (in 1976) 85 I/13 62°50'00" 113°34'25"	Spodumene-bearing pegmatite dykes in nodular qtz-biotite schist derived from sediments of the Archean Yellowknife Supergroup.	1955: trenching, 2 dd 1975: restaking, mapping, evaluation of dykes included chip sampling, combined with spodumene crystal counts.	6,600 T/VF at 1.5% Li_2O in 7 dykes (3,300,000 tons if projected to 500') 1975 (IANA Assess Rept, Doc No 080283, 1976)	Property 3 mi N of Blaisdell Lake.
NWT-55	DOME LAKE (TT) Duke Mng L 85 I/14 62°45'25" 113°16'50"	Gold-bearing qtz veins in metasediments within the Archean Yellowknife Group.	1938: staking. 1944: dd. 1974-75: dd.	(i) Lambert Vein: 4,500 poss at 0.84 oz/t Au to 135' (ii) No 14 Vein: 220' x 4.5' to 70' at 1.54 oz/t Au 1974 (Terra Mng & Expl L 1981 AR; NM 05/09/74)	Open at depth.
NWT-56	MITCHELL LAKE (RIBB) Duke Mng L 85 I/14 62°46'32" 113°26'19"	Gold-bearing qtz veins in Archean Yellowknife Group schists and argillites.	1948: Au discovered. 1955-58: stripping, trenching, bulk sample, dd. 1974: dd.	poss: 3,000 at 1.50 oz/t Au to 120' 1976 (Terra Mng & Expl L 1981 AR; NM 19/02/76)	Open at depth.
NWT-57	WT Precambrian Shield Res L (50%) Numac Oil & Gas L (50%) (in 1976) 85 I/14 62°47'15" 113°14'10"	Gold associated with sulphides in massive and stockwork qtz spatially related to S-shaped fold near fault in greywacke and slates of Archean Yellowknife Supergroup.	1938-39: staking, sampling, dd. 1961-63: geol mapping, sampling, dd. 1974: 350' decline, one level (250'), sampling.	64,265 at 0.157 oz/t Au, some Ag to 200' 1974 (FP Surv Ms 1977, p 195)	Property about 45 mi NE of Yellowknife; Ag avg 0.50 oz/t across zone.
NWT-58	CRESTAURUM Northbelt Yellowknife ML 85 J/9 62°35' 114°21'10"	Gold and sulphides in a sparsely mineralized mixture of qtz, carb, chlorite and sericite schist in shear zones cutting andesitic lavas of Archean Yellowknife greenstone belt.	1944-47: staking, trenching, shaft to 420', 2 levels, mapping surface dd. 1964-65: dd. 1966-76: Giant Yellowknife ML explored greenstone belt.	dd-ind: 100,000 at 0.55 oz/t Au to 400' 1974 (CMJ April 1974, p 44)	Property 9 mi N of Yellowknife; controlled by Giant Yellowknife ML; no significant values during 1976 dd program on Crestaurum zone.

NWT-59	HOMER Giant Yellowknife ML (in 1972) 85 J/9 62°39'15" 114°17'50"	Sph, gal, asp, py, minor cp and tetrahedrite form massive sulphide lenses in a zone of numerous narrow shears of limited length, parallel to a qtz porphyry dyke in meta-basalt and meta-andesite of the Yellowknife greenstone belt.	1933-34: staking, trenching and sampling. 1944-45: prospecting, dd. 1960-66: restaking, dd, trenching. 1971-72: restaking, mapping, bedrock geochem.	(i) 500' x 8' at 0.09 oz/t Au, 2.81 oz/t Ag, 0.14% Cu, 3.61% Pb, 1.79% Zn (c 600 T/VF) (ii) 300' x 8' at 0.01 oz/t Au, 1.45 oz/t Ag, 0.10% Cu, 2.76% Pb, 3.49% Zn 1966 (NM 11/08/66 and GSC Paper 70-70, p 40-41)	Property at Homer Lake 14 mi N of Yellowknife. Seven sulphide occurrences. Drilling on No 1 zone to 30'; potential strike length of 1,500'.
NWT-60	NITE (LI) Cdn Superior Expl L 85 J/9 62°31'45" 114°08'00"	Spodumene-bearing pegmatite dykes in nodular qtz-biotite schist derived frm sediments of the Archean Yellowknife Supergroup.	1956: trenching LI claims. 1975: restaking; evaluation of the dykes based on chip sampling and spodumene crystal count.	Main (No 1) Dyke: 440,000 at 1.51% Li_2O to 100' or 2,580,500 to a projected 500' 1977 (IANA Assess Rept Doc No 080290, 1976; Energy, Vol 3, p 406, 1978)	Property at S end of Prosperous Lake, 9 mi NE of Yellowknife.
NWT-61	PTARMIGAN Ptarmigan ML (controlled by Cominco L) 85 J/9 62°31'10" 114°11'50"	Gold-bearing qtz lenses along faults in dragfold in qtz-mica schists and minor slate of the Archean Yellowknife Group.	1936-42: staking, trenching, shaft to 923', 6 levels; prod 34,000 at 0.354 oz/t Au in 1941-42; mine closed due to wartime conditions. 1981-82: preprod dev.	110,000 at 0.43 oz/t Au 1942 (Ptarmigan ML, Directors Rept, April 30, 1943)	Property 7 mi NE of Yellowknife; no "ore" reported below 600' level.
NWT-62	TIN Cons Five Star Res L 85 J/9 62°32'35" 114°10'55"	Sulphide-bearing qtz lenses with some visible gold in shear zones in nodular qtz-mica schists of the Archean Yellowknife Group.	1928-29: staking. 1940-45: restaking, trenching, pitting, dd. 1955: dd. 1965-67: geol mapping, trenching, sampling. 1980: test dd.	prov: 1,544 at 0.45 oz/t Au 1981 (NM 19/11/81, p 5)	Property at S end of Prosperous L, 9 mi NE of Yellowknife; amenable to recovery from o/p and shallow u/g potential.
NWT-63	CLAN LAKE (NOSE CLAIMS) Precambrian Shield Res L 50% Numac Oil & Gas L 50% 85 J/16 62°54'50" 114°14'	Auriferous zones containing irregular masses and lenses of qtz with visible Au and sulphides (po, asp, py, cp, gal, sph) centered about a major structure of steeply dipping strata accompanied by intense drag folding within dacite of the Archean Yellowknife Supergroup.	1964-74: discovery, staking, geol, mapping, trenching, mag and IP surveys, dd; bulk sample treated at Discovery Mine's mill in 1967. 1980: explor and dd.	No 1 Zone: 70' x 19' at 0.42 oz/t Au to 25', open to depth or 1.08 oz/t Au across 11' 1967 (NM 17/01/74; GSC P 70-70, p 42)	The No 1 zone in vicinity of bulk sample pit (70' long) has strike length of 200', a width from 8 to 20' and grades approx 0.42 oz/t Au, 0.1 oz/t Ag. One hole confirmed depth extension to 400'. The zone has been traced for a strike length of 1,500'.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-64	SUN Pyx L 85 N/1 63°07'40" 116°19'30"	Qtz stockwork, between branches of a fault cutting PC qtz feldspar porphyry, contains hematite, a little pitchblende and copper mnrls.	1954-57: discovery, shaft to 275', 2 levels, surface and u/g dd. 1969: prospecting, mapping, trenching, scintillometer survey. 1977: dd of anomalies N of u/g workings.	(i) 100' x 6.45' at 0.207% U_3O_8 (ii) 127' x 7.28' at 0.212% U_3O_8 1957 (iii) 235' x 64' at 3.01 lb/t U_3O_8 1970 (Crestland ML, 1971 AR; IANA EGS 1978-6, p 33)	Property in Marian River area, 77 mi NW of Yellowknife. Deposit too small to develop on its own. A dd program in 1977, under Rayrock ML and Ryowa Uranium Dev Corp of Japan, tested anomalies N of u/g workings with disappointing results.
NWT-65	CAMP LAKE (DELORO) Anglo United Dev Corp L 85 N/8 63°21'05" 116°18'15"	Gold-bearing lenticular zones, containing qtz stringers and sulphides, in shear zones conformable with greywacke of Yellowknife Supergroup.	1938: staking. 1944-46: restaking, dd. 1954: relogging dd core, sampling. 1965: dd. 1974: surface expl, dd. 1975: part of area flooded by Strutt Lake Power Project. 1981: feasibility study.	dd-ind t pot: (i) 51,150 at 0.40 oz/t Au (ii) 13,050 at 0.35 oz/t Au 1980 (Anglo United Dev Corp L, 1980 AR)	Property on E side of Snare River, 82 mi NW of Yellowknife; dd-ind zones defined to a depth of 450'; several zones not included in tonnage and grade because dd incomplete. Decline and u/g dd under consideration.
NWT-66	CAB K J MacDonald/New Athona ML (in 1973) 85 N/10 63°33'00" 116°44'45"	Asp with minor bismuthinite, native Ag and Au, cp, py, po, mag, ilmenite, in massive bands and lenses along shear-fault zones in qtz-biotite schist of the Snare Group of Aphebian age.	1965-70: bulk sample analysis, trenching, geoph, dd, mapping.	ind: 214,540 at 0.162% Bi, a little Cu, Co, Au and Ag 1969 (New Athona ML, 1969 AR)	Property in Marian River area about 110 mi NW of Yellowknife; examination of a bulk sample by the Mines Branch, Ottawa in 1965 indicated metallurgical problems due to complex mineralogy.
NWT-67	BBB & OLA Viking Yellowknife GML 85 O/1 63°06'19" 114°03'14"	Native gold in qtz bodies within a qtz diorite sill near contact of sediments of the Archean Yellowknife Group. A small amount of asp and other sulphides are present.	1945-47: discovery, staking, trenching, dd, shaft to 159', lateral and u/g dd. 1968-77: Discovery Mines option.	700 T/VF at 0.6 oz/t Au 1968 (GSC Paper 70-70, p 44)	Property 45 mi NNE of Yellowknife and 8 mi SW of the Discovery mine. Viking Yellowknife GML is held 81% by New Athona ML.
NWT-68	J.E.S. Ashnola Mng CL (1980 option) 85 O/1 63°01'40" 114°10'10"	Gold and associated gal, asp, py, po, sph, cp in qtz veins in coarse greywacke to argillite of the Archean Yellowknife Group.	1937-39: discovery, 18 tons shipped to Con mill. 1941-43: staking, Cominco option. 1944-46: prospecting, trenching, sampling, dd (option dropped 1948). 1965-66: Giant Yellowknife option; geol mapping, dd. 1980-81: Ashnola Mng option, expl, adit and short decline, bulk sampling.	10,150 at 0.48 oz/t Au 1945 (R G McEachern 04/11/80 for Ashnola Mng CL in VSE SMF 03/02/81)	Property at N end of Johnston Lake; explored to depth of 205'; a shallow decline and u/g sampling recommended.

NWT-69	MOSHER LAKE (MOS) Giant Yellowknife ML (in 1974) 85 O/4 63°02' 115°30'30"	Gold associated with po, py, asp and qtz stringers in schistose amphibolite - volcanics of the Yellowknife Supergroup.	1944-47: staking, dd. 1960-74: staking, trenching, dd.	1,100' x 12' at 0.13 oz/t Au to 200' 1974 (IANA EGS 1977-5, p 124)	Over a width of 57' the zone assayed 0.07 oz/t Au; could be mined by o/p; located 20 mi from Mackenzie Highway.
NWT-70	RUSSEL LAKE (BUGOW GP) Andrew Yellowknife ML (in 1947) 85 O/4 63°14' 115°40'	Gold-bearing pyritic amphibolite of Archean Yellowknife Group.	1939: staking. 1946-71: trenching, dd.	(i) 348' x 5.9' at 0.15 oz/t Au at surface (ii) 400' x 8.7' at 0.15 oz/t Au at depth of 100' 1947 (GSC Mem 261, p 74, 1951)	Property 65 mi NW of Yellowknife.
NWT-71	STORM Cominco L (in 1942) 85 P/3 63°00'30" 113°08'30"	Scheelite-bearing qtz veins in argillites and greywackes of the Archean Yellowknife Group.	1941-42: staking, stripping, sampling, 2 shallow prospect shafts.	61' x 7' at 0.38% WO_3 and 69' x 5.9' at 0.51% WO_3 1942 (GSC Mem 261, p 273, 1951)	Property 2.5 mi NE of Camlaren Mine and 55 mi NE of Yellowknife.
NWT-72	BRUCE-AVIS Discovery ML (in 1964) 85 P/4 63°10'10" 113°55'20"	Short, narrow Au-bearing qtz veins cutting Archean andesine-amphibole gneiss (lenticular bodies of mafic volcanics intercalated in sedimentary fms.	1944-56: staking, trenching, geol mapping, sampling, dd.	100,000 at 0.62 oz/t Au in main zone 1956 (NM 19/04/56)	Property at Winter Lake, 52 mi NNE of Yellowknife; dd intersected Au-bearing veins at 400' and 800' levels; McGlynn (GSC P 70-17, p 5') reported an avg grade of 0.3 oz/t Au in main zone.
NWT-73	GAB C B Brown (in 1970) 85 P/4 63°06'10" 113°32'30"	Visible gold associated with sulphides in qtz vein within shear zone cutting knotted qtz mica schist, derived from impure greywacke and slate of Archean Yellowknife Supergroup.	1947: discovery, shallow dd.	250' x 4' at 0.58 oz/t Au (0.44 cut), 1970 (IANA EGS 1978-6, p 131)	The zone was outlined to a maximum depth of 75'.
NWT-74	SYN & VEN Newcan Mnrls L (option) 85 P/6 63°16' 113°05'	Visible gold in discontinuous qtz veins in greywacke of the Yellowknife Supergroup.	1940s: expl, pitting, trenching. 1973-74: staking, dd. 1982-83: surface investigation, sampling, dd.	92' x 5.2' at 0.54 oz/t Au 1983 (NM 03/03/83, p A17)	NE of Gordon Lake, 48 mi NNE of Yellowknife.
NWT-75	NORRIS LAKE (KT) Granex ML (in 1972) 86 B/5 64°26'30" 115°45'30"	Gal, sph, asp, cp and Au in 100' wide belt of argillite-qtz veining in siltstone-shale unit within Proterozoic Snare Group.	1938-39: staking, trenching. 1945-47: restaking, dd. 1965-69: restaking, mapping, sampling, exploring Pb-Zn-Ag possibilities. 1971: dd, EM survey.	81,000 at 0.228 oz/t Au, uncut 1947 (GSC Mem 261, p 139, 1951)	Property 140 mi NNE of Yellowknife; a 5' to 8' wide mineralized zone plunges 45° below lake to depth of 300' below lake bottom.
NWT-76	ARSENO Nationwide Mnrls L (in 1952) 86 B/6 64°16'25" 115°12'40" (No 1 deposit)	Zones of auriferous qtz veins and stringers, offset by faults, in schistose greywackes and argillites of Yellowknife Group.	1945-49: staking, trenching, dd, shaft to 525', 3 levels. 1979: sporadic work includes dewatering shaft and u/g evaluation surveys.	(i) No 1 deposit: 118,000 ind at 0.46 oz/t Au to 450' 1947 (ii) No 2 deposit: 230' x 4.6' at 0.475 oz/t Au 1946 (GSC Mem 261, p 135, 1951; NM 15/08/46)	Property at N end of Indin Lake; No 3 deposit, which is 345' long (230' is under the lake) may be offset extension of No 1 deposit.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-77	BATON LAKE Johnsby ML 86 B/6 64°23'55" 115°05'08" (Colomac Dyke)	Gold-bearing qtz albite sills or dykes - at contact of gabbro body (Colomac Dyke) or cutting qtz diorite body (Goldcrest Dyke) - in volcanic rocks of the Archean Yellowknife Supergroup.	1945-46: discovery, mapping, trenching, sampling, dd; adit and u/g workings on Colomac. 1971: Discovery ML and Hydra Expls L formed Johnsby ML. 1974: optioned to Cominco L, dd near old u/g workings. 1977: Cominco L dropped option. 1980-81: feasibility study.	(i) Colomac Dyke: 20,000,000 at 0.053 oz/t Au to 1,000' 1974 or 13,000,000 at 0.085 oz/t Au to 600' 1978 (ii) Goldcrest Dyke: 1,280,000 at 0.144 oz/t Au to 400' 1946 (Discovery ML, 1974 and 1978 ARs; Goldcrest ML, 1946 AR)	Baton Lake is a small lake just W of the N end of Indin Lake. Much of the deposit is amenable to o/p mng. Feasibility study shows that operation is not viable under $US 500 per ounce.
NWT-78	LETA ZONE 1 Lexindin GML (in 1945) 86 B/6 64°17'12" 115°12'36"	A little py, asp, po, cp and visible Au in qtz stockworks in slate and greywacke of Yellowknife Group.	1946-47: prospecting, trenching, dd.	(i) 400' x 3.7' at 0.475 oz/t Au, uncut at 200' depth (ii) 460' x 3.0' at 0.20 oz/t Au, uncut at 325' depth 1947 (GSC Mem 261, p 197, 1951)	Property at Indin Lake; Zone 1 still open below 400' but width and grade weakens.
NWT-79	NORTH INCA North Inca GML (c 1955) 86 B/6, 3 64°15'48" 115°13'00" (Main zone)	The Main zone comprises a Au-bearing stockwork of qtz veinlets in a conformable graphitic shear in sediments of the Yellowknife Group. Outside the Main shear Au occurrences are associated with qtz veins in volcanics.	1939-41: discovery, dd. 1946-49: dd, shaft to 320'; lateral work explored "A" zone on 175' level and Main zone on 300' level.	(i) "A" zone: 23,000 ind at 0.54 oz/t Au, uncut grade across 2.5' (ii) Main zone: 600' x 5' at 0.44 oz/t Au (0.28 cut), depths of 160' to 300' 1948 (GSC Mem 261, p 223, 1951; North Inca GML, 1947 and 1948 ARs)	Property on Indin Lake; dd indicated Au on "A" zone to depth of about 240' and on Main zone to 600'. The Main shear over an indicated length of 14,000' is locus of Au mineralization. North Inca GML dropped claims c 1955.
NWT-80	SPIDER LAKE (FLY CLAIMS) Treasure Island Res Corp 86 B/6 64°29'30" 115°07'54" (North Zone)	A small amount of sulphides and visible Au in gneiss N of a felsitic dyke and in greywacke and schist S of the dyke.	1945-47: staking, trenching, sampling, dd in 3 zones. 1983: dd.	(i) South zone: 70,310 dd-ind at 0.456 oz/t Au over 4.89' width to 370' depth 1980 (ii) North zone: 9,545 dd-ind at 0.43 oz/t Au 1980 (R W Phendler 15/07/80 for Treasure Is Res Corp in Prospectus 1/04/82)	Property 14 mi N of Indin Lake.
NWT-81	JINGO (DINGO) Barons Oil L (in 1975) 86 B/12 64°34'52" 115°31'52" (No 1 Vein)	Cp, po, py, gal, sph, a bismuth mnrl, native Cu and Au in qtz veins in steeply-dipping shear zones in volcanics of Yellowknife Group and in or along margins of rhyolite or porphyry dykes.	1939-46 : staking, trenching, bulk sampling, dd. 1963: restaking. 1970-71: trenching, geol mapping, geoph.	(i) No 1 Vein: 175' x 5.8' at 0.4 oz/t Au (ii) No 2 Vein: 932' x 2.58' at 0.28 oz/t Au (iii) No 18 Vein: 240' x 1.3' at 0.32 oz/t Au 1946 (GSC Mem 261, pp 203-4, 1951)	Property about 28 mi NW of Indin Lake; dimensions and grades of veins from trenching and sampling.

NWT-82	SILVER BAY Procan Expl C (option) 86 F/12 65°35'45" 117°58'35"	Volcanics of Aphebian Echo Bay Group intruded by syenitic complex in mine area. At No 1 vein, qtz-dolomite stringers occur in zone 3' to 4' wide in andesitic rocks. Mineralization in dilatent zones of veins include py, asp, cp, sph, gal, gersdorffite, niccolite, rammelsbergite, Ag, argentite, Bi, pitchblende, hematite.	1932-34: discovery, adit, winze, drifting; metallurgical tests of sample. 1946-48: dd. 1962-68: restaking, new adit, some high grade shipments. 1970-72: u/g workings rehabilitated; stockpiling of high grade ore; dd, u/g work; 100 tpd mill treated 4,000 tons in 1972 until milling suspended. 1975-77: mine and mill revamped, complete plant u/g except living quarters; prod started fall 1976, mill at 65 tpd in 1977. 1978: decline to 340' level; fire and breakdown of dump equipment resulted in shutdown.	ind: 22,785 at 109 oz/t Ag 1972 (CMH 1971-72, p 342)	Property Camsell River, near Great Bear Lake. An estimate of 25,958 tons of unspecified grade was made in 1976; in addition new high grade zones subsequently discovered. Avg grade of ore reported as 60 oz/t Ag. Produced Dec 76 - June 77 (3,752 t); Northrim's charter cancelled in 1980; Terra ML transferred its option agreement on the property to Procan in 1981.
NWT-83	IZOK LAKE Kidd Creek ML 86 H/10 65°38'00" 112°47'45"	Metamorphosed volcanogenic massive sulphide deposit (sph, cp, py, po, minor gal, tetrahedrite, Ag, sulfosalt) in area underlain by Archean Yellowknife Group sediments and volcanics.	1975-76: discovery, staking, dd; geol mapping, geoph, dd continuing on land portion of property. 1979: dd.	dd-ind: 12,150,000 at 2.8% Cu, 13.77% Zn, 1.4% Pb, 2.05 oz/t Ag 1976 (Texasgulf Inc, 1976 AR)	Property 45 mi W of Contwoyto Lake; three sulphide zones, one 300' thick, partly under Izok Lake; o/p potential.
NWT-84	TAKIJUQ LAKE (HOOD RIVER) Kidd Creek ML 86 I/2 66°03'35" 112°45'15"	Massive sulphides in dacite near a granite contact.	1973-75: prospecting permit, airborne EM and mag, geol and geochem surveys, ground EM and mag surveys, dd.	(i) No 10 zone: 500,000 at 5% Cu, 3.5% Zn, 1 oz/t Ag plus 150,000 at 4% Zn, 1+% Cu (ii) No 41 zone: 300,000 at 1.57% Cu, 4.12% Zn, 0.52 oz/t Ag 1975 (Texasgulf Inc, 1975 AR; IANA EGS 1978-5, p 78)	The deposits are 30 mi N of the Izok Lake deposit and 140 mi E of Port Radium; dd in 1974 tested No 10 zone to 250' (open at depth and on one side), also outlined the No 41 zone to 200'.
NWT-85	MARINER Silver Shield M Inc (in 1972) 86 K/4 66°12' 117°36'30"	Bornite and cp in sheared qtz vein or stock work occupying fault zones in Proterozoic rhyolite porphyry.	1930: prospecting, staking. 1968: trenching, dd, by Mariner ML	700' x 6' to 8' at 6 to 8% Cu 1968 (NM 29/08/68, p 1)	Property 15 mi NE of Port Radium. Eight holes drilled along 450' returned values ranging from 2.95% Cu/7', 9.60% Cu/5.4'. Silver Shield charter cancelled 1980.
NWT-86	C W GROUP Westfield Mnrls L (c 1969) 86 K/5 66°26'37" 117°31'25"	Bornite, cp, py, hematite and carb in vugs, fractures and vein breccia in giant qtz vein (stockwork) following fault cutting dacite; U_3O_8 values in a parallel vein.	1921: Cu-stained boulders train discovered. 1950-57: test pitting, sampling, dd. In 1957, 3,473' dd widely spaced.	ind: 100,000 at 8.4% Cu to 275' 1957 (Panamerican Ventures L, 1957 AR)	Possible o/p, near mill of Echo Bay ML; company geologists suggest possibility of substantial tonnage of 8% Cu to 1,000' depth.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-87	EL-BONANZA El-Bonanza Mng Corp L 86 L/1 66°00'10" 118°04'30"	Qtz, calcite, native Ag, cp, bornite, covellite, sph, tetrahedrite, pitchblende in fractures in Aphebian volcanic-plutonic rocks and associated sediments.	1931-36: staking, dd, 2 shafts, levels at 80 and 160'; 6,506 lbs high grade ore shipped. 1956 and 1965: u/g work and some mng. 1978: leased to Echo Bay ML major expl program.	2,500 at 60 oz/t Ag on stockpile 1972 (NM 20/07/72)	Property 5.5 mi SSW of Port Radium; contains a high-grade pod u/g (shallow dd in 1930's cut 11' of 68 oz/t Ag and 44" of 8,806 oz/t Ag); Echo Bay ML terminated its working agreement mid 1981.
NWT-88	URANIUM GROUP Dominion Explorers L (50%) Falconbridge L (50%) 86 L/1 66°05'35" 118°01'20"	A high grade Cu-bearing pod with possibility of some high grade native Ag along periphery and three good grade uranium-bearing shoots in the extension of the old workings of the Eldorado mine.	1931: claims held by Ventures L and Dominion Explorers L. pre-1944: prospecting by surface pitting. 1950-55: dd. 1959: some U mined by Eldorado. 1974-76: Echo Bay ML option, surface dd, geochem expl, unwatered Eldorado Mine workings.	(i) Cu deposit: 30,000 at 10% Cu 1955 (ii) U zone: N/A. (NM 26/10/67 and 01/09/55)	Workings at the N end of the Eldorado Mine extend into the Uranium group of 3 claims. In Dec 1976 Echo Bay ML resumed silver mining on the Eldorado property; mining operation terminated March 1982.
NWT-89	YUK Imperial Oil L 86 N/7 67°18' 116°51'	Uranium mineralization with associated Cu, Ni, Ag and Co erratically distributed in sandstones of Unit 11, which is 20-100 m thick, bounded by two faults; also some vein fracture mineralization in the Imperial fault. The sedimentary unit is part of the Helikian Hornby Bay Group.	1972-78: radioactive boulders discovered, surface expl dd; main deposit discovered by dd in 1976.	1,000 m x 400 m at 0.25% to 1+% U_3O_8 1978 (F Hasard, Geoscience Forum, Yellowknife, 12/78) or 2 260 mt contained U_3O_8 (avg grade 0.3-0.5% U_3O_8) (Gibbins W, in press 1982)	Property near Mountain Lake in Dismal Lake area; mineralization continued into the PEC claims of Aquitaine C of Can L (now Canterra Energy L), where, in 1969, U was first discovered in the Proterozoic Hornby Bay Basin.
NWT-90	CORONATION (MGB) Range Industries L (in 1975) 86 N/8 67°20'05" 116°27'00"	Chalcocite and bornite as narrow veinlets in qtz veins and brecciated basalt host rock along faults.	1967-69: prospecting, geol mapping, IP survey, dd 22 holes.	Northwest zone: 131,000 at 2.89% Cu 1968 (GSC, P 70-47, p 115)	Property in Coppermine River area; tonnage and grade based on 8 holes totalling 840'; IP indicates extension of Cu zone along flow-top horizons. Range Industries L was declared bankrupt early in 1976.
NWT-91	DICK VEIN Pickle Crow Expls L (in 1968) 86 N/8 67°19'50" 116°02'35"	Chalcocite with calcite and qtz in fault breccia zone cutting basaltic flows.	1930: discovery, trenching. 1943-52: dd. 1955-57: staking, expl. 1968-69: EM, IP and mag surveys, dd.	ind: 90,000 at 8.78% Cu 1954 (Proc Geol Assoc Can, Vol 6, pt II, p 24, 1954)	Property in Coppermine River area; tonnage based on dd, length of 1,100' x width of 10' to 100' depth; possible greater tonnage of 3-4% Cu along full length of lode, traced 3,200'.

NWT-92	DOT NO 47 (WRECK L) Coppermine River L 86 N/8 67°24'25" 116°25'	A verticular tabular body (1,500' long x 35' wide) containing chalcocite and some bornite in a fractured and shattered zone along a fault cutting basalt flows of the Helikian Coppermine River Group.	1967-68: geol, EM, IP, mag surveys, dd, airfield, tote roads; milling tests (60% Cu concentrate with 4 to 5 oz/t Ag and 92% Cu recovery). 1971-72: geochem work. 1981: results of geochem survey under study.	4,162,000 at 2.96% Cu, 10% dil (0.6% Cu in dilution MR) 1969 (FP Serv Ms, p 247, 1970)	Property in Coppermine River area. Est tonnage to 600', open at depth and along strike to SW.
NWT-93	COPPER LAMB Cons Proprietary Ms Hldgs L (in 1967) 86 N/10 67°37'55" 116°51'45"	Massive bornite, some chalcocite and cp in vertical qtz-carb vein in basalt.	1930-32: discovery, trenching, dd. 1956: airborne EM, dd. 1966: dd.	5,000 at unstated high Cu grade 1966 (GSC Bull 214, p 6)	Property in Coppermine River area; the vein is less than 200' long and pinches out 20' below surface; avg 47% Cu across 12' at widest point.
NWT-94	CARL 7 Hearne Coppermine Expls L (dropped claims in 1972) 86 N/12 67°44' 117°35'35"	Chalcocite in brecciated shear zone in basalt.	1967-68: prospecting, geol mapping, trenching, geoph surveys, dd.	125,000 at 2% Cu to 600' 1968 (NM 10/10/68, p 7)	Property in Coppermine River area.
NWT-95	CU-TAR Quadrate Expls L (in 1971) 86 O/5 67°18'40" 115°47'	Chalcocite lenses in NE-striking fracture zone traced for 1,400' in basaltic flows.	1929-30: discovery. 1968-69: EM and mag surveys; 6 shallow holes on No 3 vein.	No 3 vein: 525' x 8.1' at 3.74% Cu 1969 (GSC Bull 214, p 46, 1972)	Property in Coppermine River area.
NWT-96	SOUTH BURNT CREEK Highland-Crow Res L (53.6%) 86 O/5 67°17'55" 115°48'55"	Chalcocite, calcite, little qtz in vein within fault cutting basaltic flows.	1929-30: discovery. 1957: dd (4 holes)	20,000 at 9.1% Cu 1957 (IANA Assess Files, Panamerican Ventures L, 1957)	Property in Coppermine River area.
NWT-97	JUNE Berneck Coppermine Expl L (in 1970) 86 O/11 67°34'25" 115°03'30"	Chalcocite, minor bornite, cp, py in highly fractured and brecciated basalt.	1968-69: discovery, EM and IP surveys, dd.	proven: 1,000,000 at 2.5% Cu 1969 (GSC Bull 214, p 73, 1972)	Property in Coppermine River area.
NWT-98	RAM & ROD Ramrod Energy Corp 95 E/12 61°32'20" 127°33'45"	Pb-Zn sulphides as pods, lenses and in fractures in sheared skarn at contact of Cretaceous qtz monzonite with Cambrian sediments. The main "B" zone is a vein system with sheared carbonate replaced by sulphides.	1968-74: discovery, geol mapping, trenching, sampling, mag and EM and soil geochem surveys. 1975: dd.	"B" zone: 1,635 T/VF at 5.12% Pb, 5.42% Zn, 0.71 oz/t Ag 1974 (W G Timmins 01/08/74, for Vieco Res L in VSE SMF 30/09/74)	Property at NWT-Yukon border, W of Flat River and 105 mi NNE of Watson Lake; tonnage figure based on mapping and trenching/sampling of the "B" zone.

	DEPOSIT	GEOLOGY	WORK	TONNAGES & GRADES	REMARKS
NWT-99	ROY Logan ML 95 E/12 61°37'10" 127°39'10"	Gal, sph, minor asp-po in a south-dipping, undulating sheet 2,500' x 1,000' x 6' thick in fault within Lower Cambrian laminated siltstone. The contact with Mesozoic granite intrusives crosses the southern part of the property.	1964: original staking. 1968-69: staking, geol mapping, trenching, silt sampling. 1979-80: geol mapping, soil sampling, mag survey, trenching, sampling. 1981: dd.	2,400,000 at 0.035 oz/t Au, 6-7 oz/t Ag, 7-8% Pb, 4% Zn (estimated diluted probable mining grade). 1980 (Logan ML, VSE SMF 19/09/80)	Property on south side of Flat River, 31 mi SE of the Canada Tungsten mine.
NWT-100	PRAIRIE CREEK Cadillac Expls L (60%) Procan Expl C (40%) 95 F/10 61°33'30" 124°47'30"	Veins of massive argentiferous gal and sph plus tetrahedrite, minor cp and py, qtz and minor calcite in a shear zone cutting limestone, shale and dolomite of lower to mid-Palaeozoic age.	1928: discovery. 1959-60: staking, mapping, trenching. 1966-69: stripping, geoph, dd, 2 adits, crosscuts. 1970-74: Penarroya option, dd, drifting, raises, soil geochem, metallurgical testing, option terminated following dispute. 1974-75: recalculation of reserves, surface and u/g dd, tunnelling. 1981-82: preprod dev; 1,000 tpd mill erected.	2,143,000 at 12.5% Pb, 15.5% Zn, 0.60% Cu, 0.10% Cd, 6.41 oz/t Ag 1974 (Cadillac Expls L, 1974 AR) or Zone 3 only: 1,580,000 at 10.9% Pb, 13.5% Zn, 0.52% Cu, 0.10% Cd, 5.6 oz/t Ag 1979 (Cadillac Expls L, 1979 AR)	Prairie Creek is a tributary of the S Nahanni River 110 mi W of Fort Simpson. Favourable structure 6 mi x 2 mi contains 12 known mineralized zones. Developing No 3 zone for prod. Project put on hold in July 1982 pending improvement in metal prices.
NWT-101	LIN & PIN Avance Intl Inc (in 1976) 95 G/2 61°11'30" 122°46'35"	Py, cp, minor gal and sph in breccia pods within fracture zone cutting Devonian shale.	1966-68: staking, trenching, gravity, dd (6 holes). 1972: IP and mag surveys. 1976: Claims dropped by Avance Int'l Inc.	220' x 3.5' at 2.24% Cu 1968 (L J Manning 29/10/71, for Mt Hyland ML, in VSE SMF 17/04/72)	Main showing on island in Liard River 65 mi SW of Fort Simpson; several other breccia bands about 80' x 3 to 5' with similar assay; one vertical hole assayed 3.87% Cu over 48'.
NWT-102	COATES LAKE Redstone Res Inc 95 L/10 62°41'30" 126°37'30"	Py, cp, bornite, digenite, chalcocite, covellite, plus malachite and azurite disseminated within beds of Hadrynian limestone or dolomite, bound by two major thrust faults.	1960-78: discovery, sampling, geol, geochem, geoph, dd (includes 24,000' in 1976-77 by Shell Can Res). By 1978 Shell Can Res earned a 45% interest by spending more than $1.5 million exploring the property.	dd-ind: 37,000,000 at 3.9% Cu, 0.33 oz/t Ag, over thickness of 3.3' or 20,500,000 at 4.2% Cu, 0.27 oz/t Ag 1977 (NM 22/06/78, p 17)	The property lies 100 mi W of Wrigley; tonnage and grade calculated for B-1 Cu-bearing bed that dips 30° W with strike length of 20,000', and continues down dip 8000'. Redstone purchased Shell's interest in 1983.
NWT-103	JAY Shell Can Res L 95 M/13 63°49' 127°46'	Copper deposit of Red Bed type in dolomites of Lower Coppercap Fm at the top of the Helikian carb horizon within the Keele River embayment.	N/A	1 200 000 mt at 2.2 to 2.7% Cu 1979 (Ruelle, John, GAC, Robinson Vol, Proc GAC Toronto, 1978 (in prep)	Property about 50 mi NW of the Redstone River. The mineralized zone is open in two directions.

NWT-104	WRIGLEY Cominco L 95 O/4 63°14' 123°35'	Sph and minor gal disseminated in Middle Devonian limestone but mineralization also appears to lie along fault zones; minor smithsonite, cerrusite and hydrozincite; Ag avg slightly more than 1 oz/t.	1967-74: discovery, trenching, geochem and IP, dd, geol mapping.	N/A Zn-Pb-Ag	Mineralization considered too discontinous to be of immediate economic significance (IANA EGS 1977-5 p 186 and 1975-8, pp 172-175).
NWT-105	LENED Union Carbide Expl Corp 105 I/7 62°22'30" 128°37'	Scheelite, cp in garnet-diopside and massive po skarns in Cambro-Ordovician waxy-banded limestone unit adjacent to a Cretaceous qtz monzonite stock.	1960-61: discovery, staking, geol mapping, dd, claims lapsed. 1967: restaking, soil sampling, mapping, mag survey. 1973: geol mapping, trenching. 1977: Union Carbide did geol mapping, soil sampling, EM and mag surveys and dd.	900,000 to 1,000,000 of low grade WO_3 (C N Forster et al, Geoscience Forum, Whitehorse, Dec/79)	Property 20 mi SE of Howards Pass and 30 mi NNW of Cantung mine.
NWT-106	PR Pete Risby (in 1972) 105 I/15 62°46'20" 128°36'25"	Disseminated py, po, minor cp along thin fractures in bedded limy meta-qtzite and shale, close to a granitic intrusion.	1971-72: staking, prospecting, dd (786' in 5 holes).	25,000 at 0.5% Cu 1972 (Arrow Inter-America Corp Assess Rept, 1972, IANA Doc No 019791)	The property is about 30 mi NE of Howards Pass. The best intersection graded 0.69% Cu over 10'.
NWT-107	MACTUNG Amax Northwest Mng CL 105 O/8 63°17'15" 130°08'45"	Scheelite, po and minor cp in several pyroxene-garnet skarn zones developed from Calcareous sediments of Cambrian age and from Ordovician-Silurian Road River Fm during intrusion of qtz monzonite stocks.	1962-68: discovered from the air, expl and sampling, geochem, mapping, dd. 1973: adit, crosscuts and u/g dd, metallurgical testing. 1974-77: environmental and feasibility studies. 1979-80: dd, u/g bulk sampling, ecological studies. 1981: engineering study.	57,000,000 mt at 0.95% WO_3, includes 13,600,000 mt proven & prob at 1.02% WO_3 1981 (CIM Reporter 30/10/81, p 8)	Property on NWT-Yukon border 5 mi NW of Macmillan Pass; o/p possibilities in upper zone; however u/g mng probable on more uniform and higher grade lower zone; production possible 1985 at 1,000 tpd, decision on completion of engineering report in 1982.
NWT-108	BEAR-TWIT Welcome North ML (in 1976) 106 A/3 64°02'50" 129°25'00"	Gal, sph, minor tetrahedrite and greenockite (CdS), qtz and calcite in Silurian-Devonian brecciated dolomites. The mineralization fills crosscutting fractures, forms matrix of breccia, replaces fossils and is disseminated in the rock.	1972-76: staking, geochem, dd (optioned by Cominco L, then by Bethlehem Copper Corp)	dd-ind: 8 to 10,000,000 up to 8% Pb-Zn, 0.5 oz/t Ag 1975-77 (NM 04/03/76, p 36; CMJ April/77, p 67)	Property straddles Twitya River, 25 mi NW of Godlin Lakes. The dd in 1976 by Bethlehem Copper Corp indicated the deposit to be sub-economic.
NWT-109	GAYNA RIVER Riocanex Inc (subsidiary of Rio Algom L) 106 B/15 64°56' 130°41'	Sph, minor gal in sedimentary carbonate breccias. Highest grade found in secondary, solution-collapse, breccias.	1974-77: discovery, geochem, IP, dd (89,400' in 169 holes) 1978: geol, geoph, litho-geochem. 1979: dd.	50,000,000 mt at 4.7% Zn, 0.3% Pb c 1979 (R S Hewton in Geol Assoc Can Spec Pap 25, 1982)	Potential for much larger but lower-grade tonnage.

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